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ROYAL  
BOTANIC  
GARDEN  
EDINBURGH



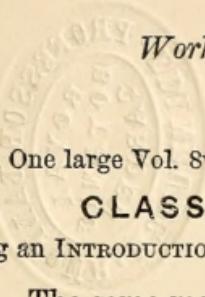


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# FLORA OF EDINBURGH

BEING

## A LIST OF PLANTS FOUND IN THE VICINITY OF EDINBURGH

BY

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ASSISTED BY

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EDINBURGH

ADAM AND CHARLES BLACK

1863

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## PREFACE.

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THE Flora of Edinburgh is varied and extensive. The country in its vicinity presents great diversity of soil, elevation, and exposure. There is the plain and the mountain, the river and the sea-shore, the wood and the valley, the moor and the cultivated field. Each of these localities has its peculiar vegetable productions. The Trappean rocks present many elevated summits covered with a rich and luxuriant vegetation, and the secondary rocks of the Carboniferous epoch produce a soil well fitted for the growth of plants.

So far back as 1670 botany appears to have been cultivated in this city. At that time the Botanic Garden was established, and under the care of Sutherland, who was Professor of Botany in 1676, it contained many native plants, more especially those used in *Materia Medica*. It was hence called the *Physic Garden*, a name still kept up in the locality where the Garden existed. The collecting of plants by the pupils of the medical school was encouraged by Professor John Hope, who offered a medal for the best Herbarium, this

was gained on one occasion by Sir James Edward Smith, who was a student at this school. The practice of giving a medal has been continued by the Professors who have succeeded Dr. Hope. By this means the Flora of Edinburgh has been very carefully examined. One of the prize-bearers, Mr. Woodforde, printed a catalogue of plants round Edinburgh, and about the same time Dr. Greville published his *Flora Edinensis* containing descriptions of the Phanerogamous and Cryptogamous plants within ten miles of the city. The latter work is still an excellent book of reference, although there has been some additions made to the Flora since its publication. The facilities presented by railways has extended the range of excursions, so that twenty miles is now the extent of country embraced in the announcement for the Prize Herbaria. The weekly trips made during summer by the Botanical Class of the University of Edinburgh have extended greatly the knowledge of the local Flora, and the result is given in the following list of plants. The district embraced is shewn in the accompanying map. It extends to between twenty and thirty miles round Edinburgh, and includes considerable variety of soil, climate, and exposure.

Besides the Flowering plants and Ferns, a list of Mosses, Hepaticæ, and Lichens has been added by Mr. John Sadler, who assists in the work of the Botanical Class. In some cases plants are noticed a little beyond

the range. Those put in brackets are not natives of Britain, but are occasionally found as escapes from gardens. Plants are enumerated which have been introduced into different localities, and especially such as have become naturalised. In this way the list has been enlarged with the view of making it useful for students. The list embraces 398 genera, 969 species, and 61 varieties of flowering plants ; 18 genera, and 41 species and varieties of Ferns and their allies ; and 480 species and varieties of Mosses, *Hepaticæ*, Lichens, and *Characeæ*.

ROYAL BOTANIC GARDEN,  
*Edinburgh, 20th April 1863.*



# FLORA OF EDINBURGH.

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## CLASS I.—DICOTYLEDONES OR EXOGENÆ.

### SUB-CLASS I.—THALAMIFLORÆ.

*Natural Order.—Ranunculaceæ*—The Buttercup,  
or Crowfoot Family.

#### CLEMATIS. LINN.

C. **Vitalba**, L. Traveller's Joy, Old Man's Beard.

*Woods and hedges—June—August.*

Aberdour, Dalkeith Park, Colinton Woods, Musselburgh,  
road-side Portobello, North Berwick. Introduced.

#### THALICTRUM. LINN.

T. **minus**, L. Lesser Meadow-Rue.

*Sandy and stony pastures near the sea—June, July.*

Between Caroline Park and Cramond, North Queensferry.  
Dysart, coast west of Kirkcaldy, North Berwick.

T. **flexuosum**, Bernh. Greater Meadow-Rue.

*Stony places and thickets—June, July.*

North Queensferry.

T. **flavum**, L. Common or Yellow Meadow-Rue.

*In moist situations—June, July.*

St. David's, North Queensferry, Donibristle, road-side  
near Roslin.

## ANEMONE. LINN.

A. **nemorosa**, L. Wood Anemone, Wind-flower.

*Woods and thickets—April, May.*

Common in woods at Roslin, Newbattle, Dalhousie, Arniston, Colinton, Cramond, Hopetoun, Falkland, etc.

Flowers occasionally double, and of various tints of colour.

A. **apennina**, L. Blue Mountain Anemone.

*Woods—May.*

Melville Castle woods. Introduced.

## RANUNCULUS. LINN.

R. **aquatalis**, L. (*heterophyllus*, Sibth.) Common Water Crowfoot.

*Lakes, streams, ponds and ditches—June—September.*

Duddingston, Lochend, Gullane, Dunfermline, Kinghorn, Dalmahoy, Prestonpans, Tynehead, North Queensferry.

$\beta$ . **confusus**. Gullane, Duddingston, Lochend, Bo'ness.

$\gamma$ . **Baudotii**. Gullane. J. T. Syme.

$\delta$ . **trichophyllus**, Water Fennel, Dunsapie Loch, Lochend, Dalmahoy, Dunfermline, Gullane.

$\epsilon$ . **floribundus**. Dunsapie Loch. J. T. Syme.

R. **circinatus**, Sibth. Water Crowfoot.

*Slow running streams and ponds—June—August.*

Lochend, Duddingston, Otterston Loch.

R. **fluitans**, Lam. Floating Water Crowfoot.

*Streams—June, July.*

Near Kinghorn.

R. **hederaceus**, L. Ivy-leaved Crowfoot.

*Shallow ponds, bogs, and mud—June—September.*

Duddingston Loch, Ravelrig Bog, North Queensferry, Lochgelly, Lasswade, Dollar, Carlowrie, Dunfermline.

**R. sceleratus**, L. Celery-leaved Crowfoot.

*Ditches and ponds—June—September.*

Duddingston Loch, Lochend, near Charleston, Linlithgow, Kilconquhar, Kincardine, North Berwick, Linton.

**R. Flammula**, Lesser Spearwort.

*Bogs, and wet places—June—August.*

Queen's Park, Duddingston Loch, and in almost all ditches and marshy spots.

**β. reptans**. Shores of Loch Leven, Loch Fittie, Dunfermline.

**R. Lingua**, L. Great Spearwort.

*Ditches, and sides of Lakes—July, August.*

Duddingston Loch, near Binns, Otterston Loch, Dollar.

**R. Ficaria**, L. Pilewort, or Lesser Celandine.

*Woods and damp shady places—April, May.*

Granton, Roslin, Colinton, Penicuick, Burntisland, Arniston, Dalhousie, Braid Hermitage, very abundant at Cramond Bridge, Dalmahoy, etc.

**R. auricomus**, L. Wood Crowfoot, or Goldilocks.

*Woods—April, May.*

Roslin, Arniston, Dalhousie, Dalkeith, Colinton, Habbie's Howe, North Queensferry, Burntisland, Penicuick, Dollar.

**R. acris**, L. Upright Crowfoot, Buttercups.

*Meadows and pastures—June, July.*

Common.

**R. repens**, L. Creeping Crowfoot, called also Buttercups.

*Meadows, pastures, roadsides—May—August.*

Common.

**R. bulbosus**, L. Bulbous Crowfoot, called also Buttercups.

*Meadows and pastures—May, June.*

Queen's Park, Gullane, Meadow below Roslin Castle, North Queensferry, Burntisland, Craigleith, Falkland, Kirknewton, Dalkeith, Prestonpans, Dollar, etc.

**R. hirsutus**, Curt. Pale Hairy Crowfoot.

*Pastures and waste places—June—October.*

Caroline Park, between Dalkeith and Newbattle, Dunfermline, Kincardine, Pentland Hills, Inverkeithing, North Queensferry.

**R. arvensis**, L. Corn Crowfoot.

*Cornfields—June, July.*

Gullane, fields near Granton, and Prestonhall.

### CALTHA. LINN.

**C. palustris**, L. Common Marsh Marigold.

*Marshy places—April—June.*

Duddingston Loch, banks of Water of Leith, Arniston, Cramond, Penicuick, Tynehead, Linlithgow, Falkland, Burntisland, Colinton, Kirknewton, Dollar, etc.

**C. minor**. Pentland Hills, near Dollar.

### TROLLIUS. LINN.

**T. europaeus**, L. Mountain Globe Flower.

*Moist spots in meadows and woods—June, July.*

Penicuick Glen, Arniston, Currie, Dunfermline, Auchindinny, Burntisland, Dollar, near Borthwick Castle, Lugton, Mid-Calder.

### ERANTHIS. SALISB.

**E. hyemalis**, Salisb. Winter Aconite.

*Woods and pastures—February, March.*

Colinton, Caroline Park, Arniston, Cramond. Introduced.

## HELLEBORUS. LINN.

**H. viridis**, L. Green Hellebore, or Bear's-foot.

*Woods, hedges, and old walls—March, April.*

Near Lasswade. Introduced.

**H. foetidus**, L. Stinking Hellebore, or Setterwort.

*Woods, usually near houses—March, April.*

Warriston, Corstorphine Hill, woods in Fife. Introduced.

## AQUILEGIA. LINN.

**A. vulgaris**, L. Common Columbine.

*Woods and thickets—May, June.*

Colinton, Dalhousie, Auchindinny, Newbattle, Hawthornden, Currie, South Queensferry, Dollar. Doubtful Native.

## ACONITUM. LINN.

**A. Napellus**, L. Common Wolf's-bane, or Monk's-Hood.

*Banks of streams and brooks—June, July.*

Roslin, Currie, Fordel, Dysart, Raith, banks of Esk above Inveresk, Corstorphine, Arniston. Introduced.

## ACTÆA. LINN.

**A. spicata**, L. Common Bane-berry, or Herb Christopher.

*Bushy places—May.*

Cleish Castle. Introduced, and now probably extirpated.

*N. O.—Berberidaceæ—The Barberry Family.*

## BERBERIS. LINN.

**B. vulgaris**, L. Common Barberry.

*Hedges and thickets—May, June.*

Dalmeny, Tynningham, Prestonhall, Colinton, South Queensferry, Cramond, Dysart, Charleston, Burntisland, Kileconquhar, Currie, Gorebridge.

## EPIMEDIUM. LINN.

**E. alpinum**, L. Alpine Barrenwort.

*Woods—May, June.*

Bandrum Saline, Inverkeithing, Dalhousie, Caldron Linn  
Dollar, at one time found at the Hunter's Tryste.  
Introduced.

*N. O.—Nymphaeaceæ*—The Water Lily Family.

## NYMPHÆA. LINN.

**N. alba**, L. Great White Water Lily.

*Lakes and ponds—July.*

Black Loch near Dunfermline, Pond west of Dundas Hill,  
Meadowbank, Tynehead, Lindores Loch, Lochend.

## NUPHAR. SM.

**N. lutea**, Sm. Common Yellow Water Lily, or Brandy-bottle.

*Lakes and ponds—July.*

Black Loch Dunfermline, Lindores Loch, Meadowbank,  
Lochend, Ravelston, Prestonpans, Raith, Kinghorn,  
Kilconquhar.

*N. O.—Papaveraceæ*—The Poppy Family.

## PAPAVER. LINN.

**P. Argemone**, L. Long Prickly-headed Poppy.

*Corn fields and waste ground—June, July.*

Queen's Park, Dalkeith, Newhaven, Burntisland, very  
abundant near Longniddry and elsewhere in Hadding-  
tonshire, Portobello, Dysart, Braid, Caroline Park,  
Kirkcaldy, Queensferry, Falkland.

**P. Rhœas**, L. Common Red Poppy.

*Corn fields and waste places—June, July.*

Caroline Park, Burntisland, Prestonpans, Linton, North Berwick, Drem, Kincardine, North Queensferry, Dysart, Dollar, etc.

**P. dubium**, L. Long Smooth-headed Poppy.

*Corn fields—June, July.*

Salisbury Crags, Duddingston, Newhaven, Portobello, near Lochend, Borthwick Castle, Linton, North Queensferry, Drem, etc.

**P. somniferum**, L. White or Opium-Poppy.

*Sandy places near the sea—July.*

Caroline Park, Lasswade, North Berwick, Kirkcaldy, North Queensferry, Donibristle, Kinross. Introduced.

### MECONOPSIS. VIG.

**M. cambrica**, Vig. Common Welsh Poppy.

*Moist shady rocky places—June.*

Woodhall near Currie, Cleish Castle, Braid woods, Hatton. Introduced.

### GLAUCIUM. SCOP.

**G. luteum**, Scop. Yellow Horned Poppy.

*Sandy sea shores—June—August.*

Elie and Anstruther, North Queensferry, North Berwick, Rosyth Castle, Charleston, Gosford.

### CHELIDONIUM. LINN.

**C. majus**, L. Common Celandine.

*Waste places—May—August.*

Culross, Hopetoun, Corstorphine, Tranent Kirk, Dalhousie, Seaton, Water of Leith, Prestonpans, Falkland. Introduced.

*N. O.—Fumariaceæ—The Fumitory Family.*

## CORYDALIS. DE CAND.

*C. solidæ*, Hook. Solid-Rooted Fumitory.*Groves and thickets—May, June.*

Dalkeith, Colinton. Introduced.

*C. luteæ*, DC. Yellow Fumitory.*Old walls—May—August.*

Colinton, Dalkeith, Raith. Introduced.

*C. claviculata*, DC. White Climbing Fumitory.*Bushy hilly places—June, July.*Ravelston Quarry, Dalmahoy Hill, Culross, Aberdour,  
Craigleith Quarry, Clunie, Dollar, etc.

## FUMARIA. LINN.

*F. capreolata*, L. Rampant Fumitory.*Corn fields and waste bushy places—June—September.*Salisbury Crags, Craigmillar, Corstorphine, Gosford, Currie,  
Aberdour, North Queensferry, Dollar, Burntisland,  
Tynningham, Kinghorn, Kincardine, etc.*F. officinalis*, L. Common Fumitory.*Corn fields and waste places—May—August.*

Common in corn fields, etc.

*F. micrantha*, Lag. Close-flowered Fumitory.*Fields and waste places—June—September.*Inverkeithing, Calton Hill, Loch Leven, abundant about  
Longniddry, Slateford, Craiglockhart, banks of Union  
Canal, Falkland, Tynningham, Drem, North Queens-  
ferry.*F. parviflora*, Lam. Small-flowered Fumitory.*Fields and waste places—June—September.*

Longniddry, Dirleton, Dollar.

*N. O.—Cruciferæ*—The Cruciferous or Cresswort Family.

CHEIRANTHUS. LINN.

**C. Cheiri**, L. Common Wallflower.

*Old walls, rocks, and ruins—April, May.*

Roslin Castle, Craigmillar Castle, Dirleton Castle, Edinburgh Castle, Salisbury Crags, Currie, Ravensheugh Castle, Rocks at Burntisland, Tynningham, Falkland.

NASTURTIUM R. BR.

**N. officinale**, R. BR. Common White Water-Cress.

*Sides of brooks and ditches—June, July.*

Duddingston Loch, Pentland Hills, Kilconquhar, Drem, Dysart, North Queensferry, Dollar, North Berwick, Tynehead, Burntisland, etc.

**N. sylvestre**, R. BR. Creeping Yellow Water-Cress.

*River banks and wet places—June—August.*

Inverkeithing, Water of Leith, Loch Leven.

**N. palustre**, DC. Marsh Yellow Water-Cress.

*Wet places—June—October.*

Linlithgow, Drem, North Berwick, Kinghorn Loch, Culross, Figgot Whins, Loch Leven.

BARBAREA. R. BR.

**B. vulgaris**, R. BR. Yellow Rocket, or Bitter Winter Cress.

*Banks of streams and damp places—May—August.*

Banks of Water of Leith in several places, Dunfermline, Duddingston, Kilconquhar, Dollar, Prestonpans, Arniston, North Queensferry, Dysart, Penicuick, Currie, Kincardine, Colinton.

## TURRITIS. LINN.

**T. glabra**, L. Tower-wort, or Long-podded Tower Mustard.

*Rocks and old walls—June, July.*

Cliffs in Glen Devon. Doubtful native.

## ARABIS. LINN.

**A. hirsuta**, R. Br. Hairy Rock-Cress.

*Walls, dry rocks and banks—June—August.*

Pettycur, Colinton, Gullane, Salisbury Crags, Blackford Hill, Banks of Esk, Auchindinny, Inverkeithing, Dalmahoy, Tynehead, Burntisland, Kinghorn, North Queensferry, etc.

**A. Turrita**, L. Tower Wall-Cress.

*Old walls—May.*

Cleish Castle. Introduced, and now, it is believed, extirpated.

## CARDAMINE. LINN.

**C. impatiens**, L. Narrow-Leaved Bitter-Cress.

*Hilly places—July, August.*

Debris of Salisbury Crags.

**C. sylvatica**, Link. Wood Bitter Cress, Lady's Smock.

*Woody places—April—September.*

Colinton, Currie, Arniston, Linlithgow, Burntisland, Penicuick, Dalkeith, etc.

**C. hirsuta**, L. Hairy Bitter-Cress.

*Moist waste places—April—August.*

Queen's Park, Roslin, Colinton, Burntisland, Water of Leith, Slateford, Penicuick, Linton, Corstorphine, etc.

**C. pratensis**, L. Meadow Bitter-Cress, or Lady's Smock.

*Moist meadows—April, May.*

Duddingston, Dalmahoy, Pentland Hills, Penicuick, North Queensferry, Linton, Tynehead, Burntisland, Falkland. Occasionally with double flowers, pink or white.

**C. amara**, L. Large-flowered Bitter-Cress.

*Moist places by streams—May, June.*

Roslin, Dalhousie, Musselburgh, Dunfermline, Lasswade, Pentland Hills, Penicuick, St. Bernard's Well, Colinton, Falkland, Arniston.

### HESPERIS. LINN.

**H. matronalis**, L. Common Dame's Violet.

*Waste shady places—May—July.*

Roslin, Limekilns, Banks of the Water of Leith, Queen's Park, Colinton, Caroline Park, Woodhall, Kincardine, Dollar. Doubtful native.

[**Malcomia maritima**, R. Br. Dwarf Annual Malcomia.

Has been found at Granton, and in other places near the sea, but the plant is not native.]

### SISYMBRIUM. LINN.

**S. officinale**, Scop. Common Hedge-Mustard.

*Roadsides and waste places—June, July.*

Abundant. Caroline Park, Granton, Burntisland, etc.

**S. Sophia**, L. Flixweed, or Fine-leaved Hedge-Mustard.

*Waste places—June—August.*

Claremont Crescent, Musselburgh, Inverkeithing, Water of Leith, Portobello, Prestonpans, Inveresk, Currie, Lasswade, Figget Whins.

**S. thalianum**, Gaud. Common Thale-Cress.

*Walls and banks—April—October.*

Queen's Park, Penicuick, Kirknewton, Granton, Dalmahoy, Burntisland, Linlithgow, etc.

## ALLIARIA. ADANS.

**A. officinalis**, Andržj. Common Garlick-Mustard, Sauce alone, or Jack-by-the-Hedge.

*Hedges, banks, etc.—May, June.*

Dalkeith, banks of Water of Leith, Queen's Park, Burnt-island, Meadowbank, Gorebridge, Colinton, Penicuick, Linton, etc.

## BRASSICA. LINN.

**B. oleracea**, L. Wild Cabbage.

*Banks and rocks by the sea—June—August.*

Inchkeith, Inchcolm, Charleston, North Queensferry, Dysart.

**B. campestris**, L. Wild Navew.

*Corn fields—June, July.*

North Berwick and Dirleton, Falkland, North Queensferry, Burntisland, Prestonpans, Kinghorn.

**B. Rapa**, L. Common Turnip.

*Borders of fields—April—July.*

Braid Hills, Castle rock Edinburgh, Craiglockhart, Liberton, Aberlady, Aberdour, Linlithgow, Craigeleith, Penicuick, North Queensferry.

**B. Napus**, L. Rape or Coleseed.

*Corn fields and waste places—May, June.*

Castle rock Edinburgh, Figgot Whins near Portobello, Burntisland, Donibristle, Dysart.

## SINAPIS. LINN.

**S. nigra**, L. Black, or Common Mustard.

*Waste places—June—August.*

Inchkeith, Bridge over the Avon.

**S. arvensis**, L. Charlock, or Wild Mustard.

*Corn fields—June—August.*

Aberlady, Gullane, Currie, Slateford, etc.

**S. alba**, L. White Mustard.

*Corn fields and waste places—July.*

North Queensferry, Tranent, Linlithgow, Kirkcaldy, Roman Camp, Tynningham.

### DIPLOTAXIS. DE CAND.

**D. tenuifolia**, DC. Wall-Rocket, or Wall-Mustard.

*Old walls and rubbish heaps—June—September.*

St. David's, Inverkeithing, Elie. Doubtful native.

**D. muralis**, DC. Sand-Rocket.

*Sandy waste places near the sea—August, September.*

Charleston, Dunfermline. Doubtful native.

[**Lunaria biennis**, Moench. Biennial Honesty.

Has been found at Dirleton and Granton, but it is not native.]

### ALYSSUM. LINN.

**A. calycinum**, L. Madwort.

*Grassy commons and debris—May, June.*

Side of road leading to Duddingston, Dirleton Common, railroad between Burntisland and Pettycur, North Queensferry Hills, Burntisland Links, shores of Loch Leven, Crichton Castle, North Berwick. Naturalized.

### KONIGA. ADANS.

**K. maritima**, R. Br. Sea-side Koniga, or Sweet Alyssum.

*Near the sea—August, September.*

Ballast hills, at St. David's and Elie. Introduced.

## DRABA. LINN.

**D. muralis**, L. Speedwell-leaved Whitlow-grass.

*Old walls and rocks—May.*

Comely Bank, Arniston, Lasswade, Raith, Corra Linn Lanark. Doubtful native.

**D. verna**, L. Common Whitlow-grass.

*Wall tops and banks—March—May.*

Salisbury Crags, Roslin, Caroline Park, Granton, Burnt-island, Arniston, Dollar, etc.

## COCHLEARIA. LINN.

**C. officinalis**, L. Common Scurvy Grass.

*Sea coast—May—August.*

Granton, Cramond, Inchkeith, Inchcolm, Aberdour, Burnt-island, Musselburgh, North Queensferry, etc.

**C. danica**, L. Danish Scurvy Grass.

*Barren stony places, on the sea coast—May—July.*

Burntisland, Kinghorn, Cramond Island.

## ARMORACIA. RUPP.

**A. rusticana**, Rupp. Common Horse-Radish.

*Waste places—May.*

Dalkeith, Duddingston, Craigmor, Kinghorn. Introduced.

**A. amphibia**, Koch. Great Water Radish.

*Watery places—June—August.*

Duddingston Loch, Kinghorn.

## CAMELINA. CRANTZ.

**C. foetida**, Fr. Common Gold-of-pleasure.

*Fields and waste places—June, July.*

Dunfermline, St. David's, Inverkeithing, Charleston. Introduced.

## THLASPI. LINN.

**T. arvense**, L. Field Penny-Cress, or Mithridate-Mustard.

*Fields, waste places, and roadsides—May—July.*

North Queensferry, Burntisland, Blackness Castle, Crookston, Pettycur, Elie, Kirkcaldy, Tynehead.

## TEESDALIA. R. BR.

**T. nudicaulis**, R. Br. Naked-stalked Teesdalia.

*Sandy and gravelly places—May, June.*

Braid Hills.

## IBERIS. LINN.

**I. amara**, L. Bitter Candytuft.

*Waste places and by the sea—July.*

Inchcolm, Craigmillar Castle, Musselburgh, Charleston, North Queensferry. Introduced.

## LEPIDIUM. LINN.

**L. campestre**, R. Br. Common Mithridate Pepper-wort.

*Dry gravelly places—June—August.*

Burntisland, Pettycur, Linlithgow, etc.

**L. Smithii**, Hook. Smooth Field Pepper-wort.

*Hedge banks, etc.—June—August.*

Roslin, Burntisland, Culross, Linlithgow, Kincardine, Kinghorn.

**L. sativum**, L. Common Garden Cress.

*Waste places—June, July.*

Debris of Salisbury Crags. Introduced.

**L. ruderale**, L. Narrow-leaved Pepper-wort.

*Waste places near the sea—May, June.*

Inverkeithing and Charleston. Introduced.

**L. latifolium**, L. Broad-leaved Pepper-wort.

*Sandy places near the sea—July, August.*

Wemyss, Tantallon Castle, Dalgety. Doubtful native.

CAPSELLA. VENT.

**C. Bursa-pastoris**, DC. Common Shepherd's Purse.

*Roadsides and waste places—March—October.*

Common.

SENEBIERA. PERS.

**S. Coronopus**, Poiret. Common Wart-Cress, or Swine's Cress.

*Waste ground—June—September.*

Dirleton, Pettycur, Burntisland, Elie, Musselburgh.

**S. didyma**, Pers. Lesser Wart-Cress.

*Waste ground—July—September.*

Burntisland. Introduced.

ISATIS. LINN.

**I. tinctoria**, L. Dyer's Woad.

*Waste land—July.*

Aberlady, Musselburgh. Introduced.

CAKILE. GAERT.

**C. maritima**, Scop. Purple Sea-Rocket.

*Sandy sea-shores—June, July.*

Granton and Caroline Park, Kirkcaldy, Leith sands, Crandon, North Queensferry, Wemyss, North Berwick.

CRAMBE. LINN.

**C. maritima**, L. Sea-Kale.

*Sandy sea-shores—June.*

Kilconquhar, Dalmeny, Elie, Inchcolm.

## RAPHANUS. LINN.

**R. Raphanistrum**, L. Wild Radish or Jointed Charlock.

*Corn fields—June, July.*

Newhaven, North Queensferry, Dirleton, North Berwick, Dysart, Linton, Falkland, Drem, Gullane, etc.

*N. O.—Resedaceæ—The Mignonette Family.*

## RESEDA. LINN.

**R. lutea**, L. Cut-leaved or wild Mignonette, Base Dyer's Rocket.

*Waste places—June—August.*

Burntisland and Pettycur, Charleston, St. Davids, debris of Salisbury Crags, Kirkcaldy, Aberlady, Morrison's Haven, Raith, North Berwick.

**R. suffruticulosa**, L. White-flowered Mignonette, or Shrubby Base Dyer's Rocket.

*Waste sandy places—July, August.*

Salisbury Crags, Inverkeithing, Bo'ness. Introduced.

**R. Luteola**, L. Common Dyer's Rocket, Yellow Weed or Weld.

*Waste places—July, August.*

Burntisland, Aberdour, Kinghorn, North Queensferry, Roslin Castle, Craigleith, Blackford Hill, Dysart, Prestonpans, Raith, Dollar, Kincardine.

*N. O.—Cistaceæ—The Rock-rose Family.*

## HELIANTHEMUM. GAERT.

**H. vulgare**, Gaert. Common Rock-rose.

*Dry hilly places—July—September.*

Salisbury Crags and Arthur's Seat, Dalmahoy Hill, Hills near Kinghorn, Pentland Hills, Blackford Hill, Burntisland, Aberdour, North Queensferry, Dollar.

*N. O.—Violaceæ—The Violet Family.*

## VIOLA. LINN.

**V. palustris**, L. Marsh Violet.*Bogs and marshy ground—April—June.*

Ravelrig Bog and Woods, Pentland Hills, Cleish Hills, Gullane, Lomonds, Dollar, Penicuick.

**V. odorata**, L. Sweet Violet.*Banks and woods—March, April.*

Roslin, Colinton, Prestonpans, Slateford, Dalhousie, Clunie, Cramond, Mid-Calder.

**V. hirta**, L. Hairy Violet.*Woods, pastures, and moist banks—April, May.*

Blackford Hill, Gullane Links, Donibristle, North Queensferry, Inverkeithing, Auchindinny, Auchtertool, Roslin, Currie, Corstorphine, Cramond.

**V. sylvatica**, Fries. Wood Violet.*Woods and hedge banks—April, May.*

Roslin, Braid Hills, Colinton, Penicuick, Arniston, Dalmahoy, Dalmeny, etc.

**V. canina**, L. Dog Violet.*Sandy and peaty places—April, May.*

Dalmahoy, Hills near Kinghorn, Dalmeny, Blackford Hill, Salisbury Crags, North Queensferry, Pentland Hills, Linton, Dollar.

**V. lutea**, Huds. Yellow Mountain Violet, or Yellow Pansy.*Hilly pastures—June, July.*

Dalmahoy Hill, Pentland Hills, Lomond Hills, Queen's Park, Blackford Hill, Corstorphine Hill, Crookston, Linlithgow, Dollar.

A variety occurs with flowers all purple.

**V. tricolor**, L. Pansy Violet or Heartsease.

*Corn fields and waste places—May—September.*

Common.

**β. arvensis**. Small field Pansy. Abundant in corn fields.

*N. O.—Droseraceæ*—The Sundew Family.

DROSERA. LINN.

**D. rotundifolia**, L. Round-leaved Sundew.

*Boggy places—July, August.*

Ravelrig Bog, Pentland Hills, North Queensferry, Knock Hill near Dunfermline, Lomond Hills, Dollar.

**D. anglica**, Huds. Great English Sundew.

*Boggy places—July, August.*

Bog at the foot of Knock Hill near Dunfermline.

PARNASSIA. LINN.

**P. palustris**, L. Common Grass of Parnassus.

*Bogs and marshy places—August—October.*

Ravelrig Bog, Pentland Hills, Gullane Links, Dunfermline, Habbie's Howe, Lomonds, Dollar.

*N. O.—Polygalaceæ*—The Milkwort Family.

POLYGALA. LINN.

**P. vulgaris**, L. Common Milkwort.

*Dry hilly pastures—June—September.*

Queen's Park, Pentland Hills, Dalmahoy Hill, Hills behind Pettycur, North Berwick, Burntisland, North Queensferry, Kirknewton, Lomond Hills, Dollar, etc. The flowers occur white, pink, and blue.

*N. O.—Caryophyllaceæ*—The Clovewort, or Chickweed Family.

DIANTHUS. LINN.

D. **Armeria**. Deptford Pink.

*Waste places—July, August.*

Field near Penicuick, Salisbury Crags, Banks of Union Canal beyond Ratho. Probably introduced.

D. **cæsius**, Sm. Cheddar Pink.

*Rocky ground—June, July.*

Salisbury Crags. Introduced.

D. **deltoides**, L. Maiden Pink.

*Dry hilly pastures—June—September.*

Arthur's Seat, Blackford Hill, Pentland Hills, Ochil Hills, North Berwick Law, Lomond Hills, Glen Farg, Kennoway.

**β. glaucus**, L. White Maiden Pink. Queen's Park.

[D. **barbatus**, L. Sweet William. Has been found at Granton, Colinton, Aberdour, Roslin, Slateford, and Coltbridge ; but the plant is not native.]

SAPONARIA. LINN.

S. **officinalis**, L. Common Soapwort.

*Woods and waste places—July, August.*

Broken bank near Inverkeithing, Roslin, Banks of the Esk between Musselburgh and Dalkeith, Burntisland, Charleston. Probably introduced.

## SILENE. LINN.

**S. anglica**, L. English Catchfly.

*Dry gravelly places—June—September.*

North Queensferry, side of Peebles Railway near Edinburgh, Dirleton.

**S. quinquevulnera**, L. Bloody-Spotted Catchfly.

Waste ground near Granton. Introduced.

**S. nutans**, L. Nottingham Catchfly.

*Dry rocky places—June, July.*

North Queensferry.

[**S. italicica**, Pers. Italian Catchfly.

*Dry rocky places—June, July.*

Rocks east of Samson's Ribs, on Arthur's Seat, and at the “Cat Nick” on Salisbury Crags, Calton Hill. Introduced, and not native.]

**S. inflata**, Sm. Bladder Campion, White Bottle.

*Borders of fields and roadsides—June—August.*

Currie Railway Station, Banks of Canal, Craigmillar Castle, Salisbury Crags, Dalhousie, Drem, Linlithgow, North Queensferry, Tynehead, Dysart, Falkland, Water of Leith, Dollar, etc.

A hairy variety is also found.

**S. maritima**, With. Sea Campion, or Catchfly.

*Near the sea—June—August.*

Caroline Park, Inchkeith, Inchcolm, Cramond Island, Pettycur and Kinghorn, Kirkcaldy, North Queensferry, Bass Rock and North Berwick.

**S. conica**, L. Striated Corn Catchfly.

*Sandy places—May, June.*

Dirleton Common, Gullane.

**S. noctiflora**, L. Night-flowering Catchfly.

*Sandy and gravelly fields—July, August.*

Dirleton, Aberlady, Longniddry, North Queensferry, Elie, Dollar.

[**S. Armeria**, L. Common, or Lobel's Catchfly.

*Waste ground—July.*

Granton, Linlithgowshire. Introduced, and not native.]

### LYCHNIS. LINN.

**L. Viscaria**, L. Red German Catchfly.

*Dry rocks—June.*

Samson's Ribs, Arthur's Seat, Blackford Hill, Orrock Hill near Burntisland, Glen Farg.

**L. Flos-cuculi**, L. Ragged Robin.

*Moist places in meadows and pastures—May—July.*

Duddingston Loch, Currie, North Queensferry, Lasswade, Roslin, Pentland Hills, Tynehead, Kincardine, Prestonpans, Falkland, etc.

**L. diurna**, Sibth. (L. dioica  $\alpha$ .) Red Campion.

*Damp hedge banks and woods—May—July.*

Queen's Park, Currie, Colinton, Roslin, Dirleton, Blackford Hill, Hawthornden, Braid, Falkland, North Queensferry, Linlithgow, etc.

Occasionally with white flowers.

**L. vespertina**, Sibth. (L. dioica  $\beta$ .) White Campion.

*Fields—June—August.*

North Berwick, Kirkcaldy, Falkland, Penicuick, North Queensferry, Midcalder, Drem, etc.

**L. Githago**, Lam. Corn Cockle.

*Corn-fields—June—August.*

Corstorphine, Roman Camp near Dalkeith, Burntisland, Dirleton, Longniddry.

### SAGINA. LINN.

**S. procumbens**, L. Procumbent Pearlwort.

*Waste sandy places and pastures—May—September.*

Common.

**S. apetala**, L. Annual small-flowered Pearlwort.

*Walls and dry places—May—September.*

Musselburgh, Morrison's Haven.

**S. ciliata**, Fr. Ciliated or Fringed Pearlwort.

*Dry gravelly places and walls—May—August.*

West Lomond Hill.

**S. maritima**, Don. Sea Pearlwort.

*Sea shore—May—September.*

Cramond, Cramond Island, Gullane, Inverkeithing, Field near Luffness Burn, North Queensferry, Burntisland.

**S. subulata**, Wimm. Awl-shaped Pearlwort or Spurrey.

*Dry sandy places—June—August.*

Dalmahoy Hills, Inverkeithing, Dalmeny, North Queensferry, West Lomond Hill.

**S. nodosa**, E. Meyer. Knotted Pearlwort or Spurrey.

*Wet sandy places—July, August.*

Queen's Park, Pentland Hills, South Queensferry, Cockenzie, Gullane Links, Kilconquhar.

### HONKENEJA. EHRH.

**H. peploides**, Ehrh. Ovate-leaved sea Purslane.

*Sea shore, amongst sand—June—September.*

Between Caroline Park and Cramond, Pettycur, Leith Sands, Musselburgh Links, North Queensferry, Burntisland, Anstruther, North Berwick, Dysart, Aberlady.

### ALSINE. WAHL.

**A. verna**, Jacq. Vernal Sandwort.

*Hilly rocky places—May—September.*

Salisbury Crags and Arthur's Seat, Blackford Hill.

**A. tenuifolia**, Wahl. Fine-leaved Sandwort.*Sandy places—May, June.*

Cramond Island, Pettycur.

## ARENARIA. LINN.

**A. trinervis**, L. Three-nerved Sandwort.*Damp shady places—May, June.*

Roslin, Colinton, Arniston, Dalhousie, Newbattle, Penicuick, Linton, Linlithgow, Burntisland, etc.

**A. serpyllifolia**, L. Thyme-leaved Sandwort.*Dry banks, walls and waste places—May—August.*

Salisbury Crags, North Queensferry, Caroline Park, Burntisland and Pettycur, Blackford Hill, Dysart, North Berwick, Linton, Colinton, Dalkeith, etc.

## STELLARIA. LINN.

**S. nemorum**, L. Wood Stitchwort.*Damp woods—May, June.*

Roslin, Arniston, Dalkeith, Banks of Esk above Musselburgh, Penicuick, Dollar, etc.

**S. media**, With. Common Chickweed.*Cultivated ground and waste places—March—September.*

Very common.

**S. Holostea**, L. Greater Stitchwort.*Banks, woods and hedges—May, June.*

Roslin, Arniston, Dalkeith, Colinton.

**S. glauca**, With. Glaucous Marsh Stitchwort.*Marshy places—May—July.*

Duddingston Loch, Braid Hill Marshes, Dunfermline, Lochend.

**S. graminea**, L. Lesser Stitchwort.*Fields, woods and hedges—May—August.*

Queen's Park, Blackford Hill, Cramond Island, Arniston, Roslin, Haddington, Dollar, Prestonpans, Drem, etc.

**S. uliginosa**, Murr. Bog Stitchwort.*Ditches and damp places—May, June.*

Duddingston Loch, Ravelrig, Dalhousie, Penicuick, Prestonpans, Burntisland, Falkland, Tynemouth, Dollar, etc.

## CERASTIUM. LINN.

**C. glomeratum**, Thuil. Broad-leaved Mouse-ear Chickweed.*Fields and waste places—May—August.*

Dalmahoy, Queen's Park, North Queensferry, Clunie, Penicuick, Midcalder, Falkland, Linlithgow, Kirknewton, Burntisland.

**C. triviale**, Link. Narrow-leaved Mouse-ear Chickweed.*Pastures and waste places—May—September.*

By roadsides abundantly.

**C. semidecandrum**, L. Little Mouse-ear Chickweed.*Wall tops and dry places—April, May.*

Salisbury Crags, Granton, Roslin, Bass Rock, Drem, Burntisland, North Queensferry, etc.

**C. tetrandrum**, Curt. Four-cleft Mouse-ear Chickweed.*Walls and dry places generally near the sea—May—August.*

Arthur's Seat, Cramond Island, Pettycur, Inchkeith and Inchcolm, Prestonpans, Calton Hill, North Queensferry, Gullane, Musselburgh, Burntisland, Kinghorn, North Berwick, etc.

**C. arvense**, L. Field Chickweed.*Sandy places—May—August.*

Railroad bank near Pettycur, Gullane Links, Crichton Castle, Banks of Esk above Musselburgh, Strathmiglo.

*N. O.—Malvaceæ*—The Mallow Family.

## MALVA. LINN.

**M. moschata**, L. Musk Mallow.*Gravelly places—July, August.*

Caroline Park, Lasswade, Auchindinny, Roslin, Inverkeithing, West end of Raith Pond, Prestonpans, Dollar, Yester, Glen Farg.

**M. sylvestris**, L. Common Mallow.*Roadsides and waste places—June—September.*

Salisbury Crags, Caroline Park, Burntisland, Pettycur, Dunbar, Gullane, Banks of Avon, Linlithgow, Raith, North Queensferry, North Berwick, Kincardine, Dysart.

**M. rotundifolia**, L. Round-leaved or Dwarf Mallow.*Waste places and roadsides—June—August.*

Burntisland, Cockenzie, Fisherrow Links, Prestonpans, Raith, Linton, Borthwick Castle, Kinghorn, North Berwick.

## LAVATERA. LINN.

**L. arborea**, L. Sea Tree-Mallow.*Rocks by the sea—July—September.*

Bass Rock, Elie.

*N. O.—Tiliaceæ*—The Lime-tree or Linden Family.

## TILIA. LINN.

**T. europæa**, L. Common Lime Tree, or Linden Tree.*Plantations and hedges—July, August.*

Colinton, Woodhall near Currie, Dalhousie, Tynningham, North Queensferry, Meadowbank, Kincardine, Prestonpans, Dalkeith, etc.

**T. parvifolia**, Ehrh. Small-leaved Lime Tree.*Woods—July, August.*

Cramond, Tynningham, Yester.

**T. grandifolia**, Ehrh. Broad-leaved downy Lime Tree.

*Woods and hedges—June, July.*

Lasswade, Penicuick, Yester, Falkland.

*N. O.—Hypericaceæ*—The Tutsan or St. John's Wort Family.

HYPERICUM. LINN.

**H. calycinum**, L. Large-flowered St. John's Wort.

*Woods—July—September.*

Tynningham, north side of Raith Pond, Balcarras, Dun-glass. Introduced.

**H. Androssænum**, L. Common Tutsan or Park-leaves.

*Woods—July, August.*

Colinton, Dollar. Introduced.

**H. anglicum**, Bert. Large-flowered Tutsan.

*Hedges and shrubby places—July—September.*

Culross, Dollar. Introduced, and a doubtful native.

**H. quadrangulum**, L. Square-stalked St. John's Wort.

*Wet places—July, August.*

Duddingston, Roman Camp near Dalkeith, Roslin, Black-ford, Gullane, Balcarras, Dysart, Kilconquhar, Kincardine, North Berwick, Falkland.

**H. perforatum**, L. Common Perforated St. John's Wort.

*Woods and hedge banks—July, August.*

Water of Leith, Roslin, Colinton, Queen's Park, Burntisland, Kinghorn, Falkland, Kincardine, North Queensferry, Dysart, Dollar, etc.

**H. humifusum**, L. Trailing St. John's Wort.

*Gravelly, heathy, and boggy places—June—August.*

Dalmahoy, Roslin, Ravelrig, Auchindinny, Bilston Burn, Dollar, Dysart, West Lomond Hill.

**H. hirsutum**, L. Hairy St. John's Wort.

*Woods and hedge banks—July, August.*

Duddingston, Roslin, Colinton, Dalhousie, Kirkcaldy, Aberdour, North Berwick, Falkland, Dollar, Kincardine, Kilconquhar, Dysart.

**H. pulchrum**, L. Small upright St. John's Wort.

*Dry heaths, banks, and woods—June, July.*

Arthur's Seat, Salisbury Crags, Blackford, Braid, Roslin, Arniston, North Queensferry, Dysart, Falkland, Dollar, etc.

*N. O.—Aceraceæ—The Maple Family.*

### ACER. LINN.

**A. campestre**, L. Common Maple.

*Woods and hedges—May, June.*

Arniston, North Queensferry, Ormiston, Water of Leith, Smeaton, Prestonhall, Dysart, Linlithgow.

**A. Pseudo-platanus**, L. Greater Maple or Sycamore.

*Woods and hedges—May, June.*

Newhaven, Corstorphine, Colinton, Craiglockhart, Roslin, Arniston, Auchindinny, Tynningham, Penicuick, Balcarras, Aberdour, Dalkeith, etc.

*N. O.—Geraniaceæ—The Crane's-bill Family.*

### GERANIUM. LINN.

**G. phænum**, L. Dusky Crane's-bill.

*Woods and thickets—May, June.*

Lasswade, Slateford, Colinton, near Linlithgow, Granton, Aberdour, Prestonhall, Raith. Introduced.

**G. nodosum**, L. Knotty Crane's-bill.

*Woods—May—August.*

Colinton. Introduced, and a doubtful native.

**G. sylvaticum**, L. Wood Crane's-bill.

*Woods and thickets, and sides of rivers—June, July.*

Woodhall near Currie, Lasswade, Roslin, Auchindinny, Arniston, Hawthornden, Raith, Hopetoun, Prestonhall, Tynehead, Dollar, Meadowbank, Dalkeith.

**G. pratense**, L. Blue Meadow Crane's-bill.

*Meadows and moist situations—June—August.*

Banks of Water of Leith, Ravelrig, Queen's Park, Gogar, Gullane, Dysart, Kincardine, Linton, etc.

**G. sanguineum**, L. Bloody Crane's-bill.

*Rocks and stony places—July.*

Salisbury Crags and Arthur's Seat, Pettycur and Burnt-island, Gullane Links, Aberlady, Raith, Balvaird, North Queensferry.

**G. pyrenaicum**, L. Mountain Crane's-bill.

*Pastures and waste places—June, July.*

Salisbury Crags, Aberdour, Craigmillar Castle, Queen's Park near Samson's Ribs, Corstorphine Hill, Portobello, North Queensferry.

**G. pusillum**, L. Small-flowered Crane's-bill.

*Waste places—June—September.*

Queen's Park, Musselburgh Links, Gullane, Granton Quarry, Falkland.

**G. dissectum**, L. Jagged-leaved Crane's-bill.

*Fields and waste places—June—August.*

Queen's Park, Duddingston, Auchindinny, Corstorphine, Ravelrig, Dunbar, Prestonpans.

**G. columbinum**, Long-stalked Crane's-bill.

*Gravelly pastures—June, July.*

Dalmahoy Hill, banks of Water of Leith near Balerno, Queen's Park, Salisbury Crags, St. David's.

**G. molle**, L. Dove's-foot Crane's-bill.*Dry pastures, corn-fields and waste places—May—August.*

Corstorphine, Queen's Park, Burntisland, North Queensferry, Colinton, Prestonpans, Midcalder, Drem, Granton, Tynehead, etc.

**G. lucidum**, L. Shining Crane's-bill.*Moist rocky places, and shady hedge banks—June—August.*

Queen's Park, North Queensferry, Craiglockhart, Dalmahoy, Raith Crags, Dollar, Glen Farg, Corstorphine.

**G. robertianum**, L. Stinking Crane's-bill, or Herb Robert.*Under old walls, hedges and stony waste places—June—September.*

Common. Occasionally with white flowers.

## ERODIUM. L'HERIT.

**E. cicutarium**, Sm. Hemlock-leaved Stork's-bill.*Dry sandy waste places and pastures—June—September.*

Newhaven, Caroline Park, Blackford Hill, Duddingston, Arthur's Seat, Leith Links, Gullane, Burntisland, Kinghorn, Kilconquhar, North Berwick, etc.

Flowers either pink or white.

## N. O.—Linaceæ. The Flax Family.

## LINUM. LINN.

**L. usitatissimum**, L. Common Flax.*Cultivated fields and waste places—July.*

Salisbury Crags, Currie, Dunfermline, Queensferry, Dysart, Musselburgh Links, Lochgelly, Dirleton. Introduced.

**L. perenne**, L. Perennial blue Flax.*Debris, etc.—June—July.*

Salisbury Crags. Introduced.

**L. catharticum**, L. Purging Flax.*Dry pastures—June—August.*

Queen's Park, Roman Camp Dalkeith, Caroline Park, Queensferry, Dalmahoy, Pettycur, Dirleton, Gullane, Falkland, North Berwick, Dollar, Drem, etc.

**RADIOLA. Gmel.****R. Millegrana**, Sm. Thyme-leaved Flax-seed.*Damp sandy places—July, August.*

Shores of Loch Leven, Tents Muir.

*N. O.—Oxalidaceæ—The Wood Sorrel Family.***OXALIS. LINN.****O. Acetosella**, L. Common Wood Sorrel.*Woods and shady places—May, June.*

Queen's Park, Roslin, Colinton, Arniston, Penicuick, Prestonhall, Dalmahoy, Tynehead, North Queensferry, Burntisland and Aberdour, etc.

*N. O.—Balsaminaceæ—The Balsam Family.***IMPATIENS. LINN.****I. noli-me-tangere**, L. Yellow Balsam or Touch-me-not.*Damp shady places—July—September.*

Arniston woods. Introduced.

## SUB-CLASS II.—CALYCIFLORÆ.

## SECT. I.—POLYPETALÆ.

*N. O.*—**Celastraceæ**—The Spindle-Tree Family.

EUONYMUS. LINN.

**E. europæus**, L. Common Spindle Tree.

*Woods and hedges, etc.—May, June.*

Salisbury Crags and Arthur's Seat, Duddingston, Craiglockhart, Arniston, Balcarras, Colinton.

*N. O.*—**Staphyleaceæ**—The Bladder-Nut Family.

STAPHYLEA. LINN.

**S. pinnata**, L. Common Bladder-Nut.

*Woods and hedges—June.*

Slateford, Roslin, Colinton, Prestonhall, Woodhall near Currie, Arniston. Introduced.

*N. O.*—**Leguminosæ**—The Pea and Bean Family.

ULEX. LINN.

**U. europæus**, L. Common Furze, Whin or Gorse.

*Hilly pastures and heaths—February—July.*

Queen's Park, Pentland Hills, Ravelrig, Dysart, Dollar, Braid Hills, Burntisland and Pettycur, etc.

**U. nanus**, Forst. Dwarf or Autumnal Furze.

*Dry heaths—July—November*

Pentland Hills, Dollar.

## GENISTA. LINN.

**G. tinctoria**, L. Dyer's Green-weed.

*Pastures and borders of fields.—July—September.*

Pentland Hills, Drumshorlan Moor.

**G. anglica**, L. Needle Green-weed or Petty Whin.

*Moist heathy places—May, June.*

Tynehead, Pentland Hills, Torryburn, Dollar.

## SAROTHAMNUS. WIMM.

**S. scoparius**, Koch. Common Broom.

*Banks, hills, and heaths—May, June.*

Pentland Hills, Blackford, Roslin, Dalhousie, Cramond, frequent on railway banks, etc.

## ONONIS. LINN.

**O. arvensis**, L. Common Trailing Rest-Harrow.

*Barren sandy places, etc.—June—September.*

Queen's Park, Caroline Park, Gosford, Roman Camp, Aberlady, North Queensferry, Pentland Hills, North Berwick, Kilconquhar, Dollar.

Flowers occasionally white.

**O. campestris**, Koch. Spurious Rest-Harrow.

*Barren places—June—September.*

Salisbury Crags, Fisherrow Links.

## MEDICAGO. LINN.

**M. sativa**, L. Purple Medick or Lucerne.

*Banks and borders of fields—June, July.*

Near Inverkeithing, banks of Canal near Edinburgh, Figgot Whins, Gorebridge, Lasswade, near Kirkcaldy, Kilconquhar. Introduced.

**M. lupulina**, L. Black Medick or Nonsuch.

*Waste and cultivated ground—May—August.*

Craigeleith, Queen's Park, Liberton, Dalmahoy, Slateford, Lasswade, Kirkcaldy, Yester, Burntisland, Queensferry, etc.

**M. maculata**, Sibth. Spotted Medick.

*Gravelly places—May—August.*

Donibristle, near Kirkcaldy.

### MELILOTUS. LAM.

**M. officinalis**, Willd. Common Yellow Melilot.

*Waste places and roadsides—June—August.*

Gullane, Roman Camp, Lasswade, Musselburgh, Burnt-island, Aberlady, Kilconquhar.

**M. arvensis**, Willd. Field Melilot.

*Waste places—June, July.*

St. David's, Inverkeithing, Charleston.

**M. vulgaris**, Willd. White Melilot.

*Sandy places near the sea—July, August.*

St. David's, Red Braes Quarry, Inverkeithing, Water of Leith, Quarry Slateford, Figget Whins.

### TRIFOLIUM. LINN. *12 whorled leaves* *all* *o*

**T. pratense**, L. Common Purple Clover.

*Meadows and pastures—June—September.* <sup>10</sup> *occasional* <sup>11 or 14</sup> *at very early* <sup>at very early</sup> *8. 9. 10. 11. 12. 13. 14.*  
Dalkeith, Queen's Park, Burntisland, Queensferry, etc.

**T. medium**, L. Zigzag Trefoil.

*Fields, woods and waste places—June—September.* <sup>30</sup> *40* *40* *40* *40*

Salisbury Crags, Dalhousie, Roman Camp, North Queensferry, Yester.

*whorl alternate*

**T. incarnatum**, L. Crimson Clover.*Waste places—June, July.*

Aberlady, Granton. Introduced.

**T. arvense**, L. Hare's Foot Trefoil.*Dry pastures and waste sandy places—July—September.*Queen's Park, Donibristle, Blackford Hill, Braid Hills,  
Aberlady, North Queensferry, North Berwick, Linton,  
Dollar.**T. striatum**, L. Soft Knotted Trefoil.*Dry pastures and sandy places—June, July.*Salisbury Crags, Duddingston, North Queensferry, Dun-  
fermline.**T. scabrum**, L. Rough Rigid Trefoil.*Dry sandy places generally near the sea—May—July.*

Burntisland, Queen's Park, Blackford, Pettycur.

**T. repens**, L. Dutch or White Clover.*Meadows, pastures, and railway banks—May—September.*Queen's Park, Blackford Hill, Auchindinny, Figgot Whins,  
Newhaven, North Queensferry, Yester, Dysart, Drem,  
etc.**T. ornithopodioides**, L. Bird's Foot Trefoil.*Dry sandy pastures—June, July.*

Musselburgh Links, Inverkeithing.

**T. fragiferum**, L. Strawberry-headed Trefoil.*Damp pastures—July, August.*

Aberlady Bay, Cockenzie.

**T. procumbens**, L. Hop Trefoil.*Dry pastures and waste gravelly places—June—August.*Dirleton, Arthur's Seat, Inverkeithing, Dundas Hill, Ravel-  
ston Quarry, Falkland, Yester, Tynehead.

**T. minus**, Sm. Lesser Yellow Trefoil.*Dry pastures and waste places—June—August.*

Salisbury Crags, Craigmillar, Tynehead, Slateford, Dollar, Burntisland, Yester, North Queensferry.

**T. filiforme**, L. Slender Yellow Trefoil.*Dry pastures and waste places—June, July.*

North Queensferry, Duddingston, Craigmillar, Roslin, Inverleith, Burntisland, Dalmahoy, Gullane, Kincardine, Corstorphine.

## LOTUS. LINN.

**L. corniculatus**, L. Common Bird's-foot Trefoil.*Pastures, dry banks, etc.—June—August.*

Queen's Park, Aberdour and Burntisland, Blackford Hill, Caroline Park, Dollar, Linlithgow, Craigmillar, Roslin, Linton, etc.

**β. tenuis**. Dalmahoy, Banks of Canal, Prestonpans.**L. major**, Scop. Greater Bird's-foot Trefoil.*Damp shady places—June—September.*

Banks of Canal, Queen's Park, Morningside, Inverkeithing, Water of Leith, Roslin, Yester, Dysart, Drem, Kilconquhar, Dollar.

## ANTHYLLIS. LINN.

**A. Vulneraria**, L. Lady's Fingers, or Kidney Vetch.*Dry pastures—June—August.*

Arthur's Seat and Salisbury Crags, between Burntisland and Pettycur, Aberdour, Blackford Hill, Craiglockhart, Tynningham, North Queensferry, North Berwick, Dysart, Lomonds, Dollar, Linlithgow.

## OXYTROPIS. CAND.

O. **Halleri**, Bunge. Hairy Mountain Milk-vetch.

*Dry hilly pastures—July.*

North Queensferry Hills, Bishop Hill, Lomonds.

## ASTRAGALUS. LINN.

A. **hypoglottis**, L. Purple Mountain Milk-vetch.

*Hilly pastures and sandy places by the sea—June, July.*

Queen's Park, Cramond Island, Kirkcaldy, North Queensferry, Caroline Park, Gullane, Seafield Tower, Gosford, Leith Links, Aberlady, Burntisland, Aberdour.

A. **glycyphyllos**, L. Sweet Milk-vetch, Wild Liquorice.

*Bushy gravelly places—June.*

North Queensferry, Woodhall, Currie, Burntisland, Gullane.

## VICIA. LINN.

V. **hirsuta**, Koch. Hairy Vetch or Tare.

*Corn fields, pastures, etc.—June—August.*

Salisbury Crags, Blackford Hill, Dalmahoy, Aberdour, Dysart, Kilconquhar, Tynehead, Kinross.

V. **tetrasperma**, Mönch, Smooth Vetch or Tare.

*Fields—July, August.*

St. Davids, Hunter's Bog, Charleston.

V. **sylvatica**, L. Wood Vetch.

*Woods and bushy places—July, August.*

Debris of Salisbury Crags, Colinton Woods, Cramond, Burntisland.

V. **Orobus**, DC. Wood Bitter Vetch.

*Woods—May, June.*

Braid Hills, Lasswade, Currie, West Linton, Tynehead.

V. *Cracca*, L. Tufted Vetch.*Hedges and bushy places—June—August.*

Salisbury Crags, Blackford, Dalkeith, Auchindinny, Craiglockhart, Colinton, North Berwick, Dysart, Yester, Linton, Prestonpans, Drem, Kincardine, Kilconquhar, etc.

V. *sepium*, L. Bush Vetch.*Woods and hedges—June, July.*

Debris of Salisbury Crags, Arniston, Ravelrig, Braid Hills, Donibristle, North Queensferry, Penicuick, Burntisland, Prestonpans, Linton, Dalmahoy, Dysart, Yester, etc.

V. *lutea*, L. Rough-podded Yellow Vetch.*Stony places by the sea—June—August.*

North Queensferry.

V. *sativa*, L. Common Vetch.*Corn fields and pastures—May, June.*

St. David's, Inchcolm, North Berwick, Craigleith, Salisbury Crags, Dalmahoy, North Queensferry, Tynehead, Kinross.

*β. angustifolia*, Dalmahoy, St. Davids.*γ. Bobartii*, Arthur's Seat, St. Davids, Midcalder.V. *lathyroides*, L. Spring Vetch.*Dry sandy pastures—May, June.*

Salisbury Crags, Dalmahoy, Glencorse, near Rosyth Castle, Blackford Hill, Burntisland, North Queensferry.

## LATHYRUS. LINN.

L. *pratensis*, L. Yellow Meadow Vetchling.*Meadows, pastures, and hedges—July, August.*

Colinton, Liberton, Queen's Park, Currie, Slateford, Ravelrig, Tynningham, Prestonpans, Kilconquhar, Dysart, North Queensferry, Drem, Kincardine, Tynehead, Arniston, North Berwick, Falkland, etc.

L. *sylvestris*, L. Narrow-leaved Everlasting Pea.*Waste bushy places—July—September.*

Debris of Salisbury Crags, Caldron Linn, Dollar,

**L. latifolius**, L. Broad-leaved Everlasting Pea.*Woods and waste places—July, August.*

Queen's Park, Salisbury Crags. Introduced.

Doubtful if now to be found.

**L. macrorhizus**, Wimm. Tuberous Bitter Vetch.*Woods, and mountain thickets—June, July.*

Dalmahoy, Braid Hills, Queen's Park, Arniston, Tynehead, North Queensferry, Roslin, Auchindinny, Currie, Falkland, Drem, Dalhousie, Cramond, between Pettycur and Burntisland.

**β. tenuifolius**. Salisbury Crags.

## ORNITHOPUS. LINN.

**O. perpusillus**, L. Common Bird's foot.*Dry sandy pastures—June, July.*

North Queensferry, Musselburgh, Dollar.

## ONOBRYCHIS. GAERT.

**O. sativa**, Lam. Common Saintfoin, or Cocks-head.*Dry sandy places—June, July.*

Near Newhaven, Sandy Hills near Belhaven.

*N. O.—Rosaceæ.—The Rose Family.*

## PRUNUS. LINN.

**P. communis**, Huds. Common Plum.*Woods, hedges, and rocks—April, May.***α. spinosa**, Sloe or Blackthorn. Salisbury Crags and Arthur's Seat, Pentland Hills, Dalkeith Woods, Arniston, Dalhousie, Roslin, Slateford, Burntisland, Donibristle, Tynehead, Dalmahoy, Dollar.

**β. insititia**, Bullace-tree. Lasswade, Corstorphine, Dalmahoy, Colinton, Burntisland.

**γ. domestica**, Wild Plum. Craigmillar, Craiglockhart, Lasswade, Dalkeith, Kincardine, Arniston, Dollar, Burntisland, Cramond, Dalmahoy.

**P. Padus**, L. Bird Cherry.

*Woods and hedges—May.*

Near Culross, Borthwick, Colinton, Roslin, Lasswade, Craigeleith, Penicuick, Dalmahoy, Linlithgow, Dollar.

**P. Avium**, L. Wild Cherry or Gean.

*Woods—May.*

Slateford, Penicuick, Auchindinny, Arniston, Dalmahoy, Corstorphine, Dalhousie, Dollar.

**P. Cerasus**, L. Morello or Dwarf Cherry.

*Woods—May.*

Arniston, Colinton, Dollar, Auchindinny.

### SPIRÆA. LINN.

**S. salicifolia**, L. Willow-leaved Spiræa.

*Damp woods—July.*

Colinton, Arniston, Roslin, North Queensferry.

**S. Ulmaria**, L. Meadow Sweet.

*Moist meadows and sides of streams—June—August.*

Queen's Park, Water of Leith, Roman Camp, Linton, Kincardine, North Queensferry, Dysart, Falkland, Prestons.

**S. Filipendula**, Common Dropwort.

*Dry stony pastures—June, July.*

North Queensferry, Queen's Park, Blackford Hill, Burntisland, Penicuick.

## POTERIUM. LINN.

P. **Sanguisorba**, L. Common Salad Burnet.

*Dry pastures—June—August.*

Near Aberdour, Tynningham. Introduced.

## AGRIMONIA. LINN.

A. **Eupatoria**, L. Common Agrimony.

*Roadsides and waste places—June, July.*

Queen's Park, Queensferry, St. David's, Inverkeithing, Blackford, Linton, Dollar, Dysart, North Berwick, Prestonpans, Gullane.

## ALCHEMILLA. LINN.

A. **vulgaris**, L. Common Lady's Mantle.

*Roadsides, woods and pastures—June—August.*

Queen's Park, Comely Bank, Banks of Water of Leith, Canal Banks, Penicuick, Burntisland, North Queensferry, Dalkeith, Prestonpans, etc.

A. **arvensis**, L. Field Lady's Mantle or Parsley Piert.

*Dry sandy fields—May—August.*

Queen's Park, Currie, Dalmahoy, Blackford, Craigmrook, Prestonpans, Penicuick, North Queensferry, Tynehead, Falkland, Dollar, Dysart, etc.

## POTENTILLA. LINN.

P. **anserina**, L. Silver-weed.

*Roadsides and waste places—June, July.*

Dalmeny, near Newhaven, Queen's Park, Figgate Whins, Auchindinny, Linton, Burntisland, North Queensferry, Linlithgow, Falkland, Tynehead, Gullane, Kincardine, etc.

P. **argentea**, L. Hoary Cinquefoil.

*Barren stony places—June, July.*

Blackford Hill, Whitekirk, Railway Bank St. Margaret's Station, Newhaven, near Crombie Point, Tynningham.

**P. verna**, L. Spring Cinquefoil.

*Dry rocky pastures—May, June.*

Arthur's Seat, Craiglockhart, Cockenzie Links, North Queensferry.

**P. reptans**, L. Common Creeping Cinquefoil.

*Roadsides and fields—June—August.*

Craigmillar Castle, Roman Camp Dalkeith, Gosford and Aberlady, Joppa, Linton, Drem, North Queensferry, North Berwick.

**P. Tormentilla**, Nesl. Common Tormentil.

*In dry pastures—June, July.*

Queen's Park, Roslin, Braid and Pentland Hills, North Queensferry, Colinton, Dalmahoy, Dalkeith, Penicuick, Falkland, Burntisland, Tynehead, Drem, etc.

**P. fruticosa**, L. Shrubby Cinquefoil.

*Woods and bushy places—June, July.*

Colinton, Raith, Roslin. Introduced.

**P. Fragariastrum**, Ehrh. Barren Strawberry, or Strawberry-leaved Cinquefoil.

*Woods and banks—April, May.*

Queen's Park, Braid, Roslin, Dalhousie, Colinton, Penicuick, Dalkeith, Dalmahoy, Cramond, Burntisland, etc.

### COMARUM. LINN.

**C. palustre**, L. Purple Marsh Cinquefoil, or Purple Marshlocks.

*Marshes and boggy places—July.*

Braid Marshes, Pentland Hills, Ravelrig, North Queensferry, Knock Hill, Duddingston Loch, Falkland, Dollar.

### FRAGARIA. LINN.

**F. vesca**, L. Wood Strawberry.

*Woods and banks—May, June.*

Roslin, Colinton, Dalkeith, Queen's Park, Dalmahoy, Penicuick.

**F. elatior**, Ehrh. Hautboy Strawberry.

*Woods—June—August.*

Smeaton, Dalkeith, Roslin, roadside near Arniston.

RUBUS. LINN.

**R. Idæus**, L. Common Raspberry.

*Woods and thickets—June.*

Corstorphine Hill, Colinton, Craiglockhart, Ravelrig, Roslin, Auchindinny, Queen's Park, Dalkeith, Tynningham, Falkland.

**R. suberectus**, And. Upright Bramble.

*Hedges and boggy places—July, August.*

Kirkcaldy, Colinton, woods on shores of Firth of Forth.

**R. latifolius**, Bab. Broad-leaved Bramble.

*Open woods—July, August.*

Cramond Bridge, Colinton.

**R. carpinifolius**, W. and N. Hornbeam-leaved Bramble.

*Hedges, thickets and woods—July, August.*

Colinton, woods on shores of Firth of Forth.

**R. corylifolius**, Sm. Hazel-leaved Bramble.

*Hedges and thickets—June—August.*

Dalhousie, Muttonhole, Aberdour, Roman Camp, Dalmeny, Granton, Burntisland.

**R. cæsius**, L. Dewberry.

*Hedges and thickets—June—September.*

Dalkeith, Banks of Esk above Musselburgh, Roman Camp, Kincardine, Liberton.

**R. saxatilis**, L. Stone Bramble.

*Moist rocky places—July, August.*

Roslin, Auchindinny Woods, Lethensden Black Devon, Dalhousie, Arniston, Dollar.

**R. Chamæmorus**, L. Mountain Raspberry or Cloudberry.

*Bogs on the hills—June, July.*

Easter Cairn Hill Pentlands, Ben Clach Ochils.

### GEUM. LINN.

**G. urbanum**, L. Wood Avens.

*Woods and hedges—May—August.*

Woodhall near Currie, Queen's Park, Water of Leith, Penicuick, Burntisland, 'Roslin, Drem, Kincardine, North Queensferry, Tynehead, Dalkeith, etc.

**G. intermedium**, Ehrh. Intermediate Wood Avens.

*Damp woods—June, July.*

Arniston, Currie, Colinton, Auchindinny, Dalkeith, Corstorphine, Yester, Prestonhall, Dollar.

This is probably a hybrid between *G. urbanum* and *G. rivale*.

**G. rivale**, L. Water Avens.

*Damp woods and marshy grounds—June, July.*

Dalkeith, Banks of Esk, Water of Leith, Arniston, Burntisland, Penicuick, Granton, Currie, Falkland, Tynehead, Linlithgow, Colinton, Kinghorn, Dollar, etc.

### ROSA. LINN.

**R. spinosissima**, L. Burnet-leaved Rose.

*Dry waste places—May.*

Arthur's Seat, North Queensferry, Gullane, Blackford, Currie, Caroline Park, Pettycur, Aberlady, Tynehead, Drem, Kincardine, Falkland, North Berwick, Burntisland, Prestonpans, Strathmiglo, etc.

**R. Sabini**, Woods. Sabine's Rose.

*Thickets and hilly places—June.*

Dalhousie, Tynningham.

**R. doniana**. Dalhousie.

**R. villosa**, L. Villous Rose.*Woods, hedges and thickets—June, July.*

Cockpen, Muttonhole, Craigcrook, Ferry Hills, Falkland.

**R. tomentosa**, Sm. Downy-leaved Dog Rose.*Woods, hedges and waste places—June, July.*

Cramond, Saughton Hall, Burntisland, Prestonpans, North Queensferry, Tynehead, Dalkeith, Kincardine, Falkland, North Berwick, Drem, etc.

**R. rubiginosa**, L. Sweet Briar.*Bushy places—June, July.*

Burntisland, Dalgety, Ravelrig, Craiglockhart, Braid, Pettycur, Lasswade, Caroline Park, Kilconquhar, Aberlady, Linlithgow, North Berwick.

**R. canina**, L. Common Dog Rose, or Hep-tree.*Woods and hedges—June, July.*

Burntisland, Cockpen, Hatton, Queen's Park, Roslin, Blackford Hill, North Berwick, Drem, Kincardine, North Queensferry, Tynehead, Dysart, Yester, etc.

**R. arvensis**, Huds. Trailing Dog Rose.*Woods and hedges—June, July.*

Dalhousie, Blackford, Muttonhole, Queen's Park, Cockenzie, Gosford.

## CRATÆGUS. LINN.

**C. Oxyacantha**, L. Hawthorn, White Thorn, or May.*Hedges and thickets—May, June.*

Roslin, Queen's Park, Dalmahoy, Colinton, Water of Leith, Carlowrie, Falkland, Linlithgow, Gorebridge, Kincardine, Burntisland, Dalkeith, etc.

## PYRUS. LINN.

P. **communis**, L. Wild Pear Tree.

*Woods and hedges—April, May.*

Dalmeny, Duddingston.

P. **Malus**, L. Crab Apple.

*Woods and hedges—May.*

Dalmeny, Swanston, Colinton, Roslin, Lasswade, Carlowrie, Ravelrig, Auchindinny, Arniston, Dalhousie.

P. **Aucuparia**, Gaert. Rowan Tree, Mountain Ash, or Quicken Tree.

*Woods and hilly places—May, June.*

Dalmahoy, Arniston, Roslin, Craiglockhart, Colinton, Caroline Park, Habbie's Howe, Penicuick, Dalkeith.

P. **Aria**, Sm. White Beam Tree.

*Woods and hilly places—May.*

Arthur's Seat, Craiglockhart, Arniston, Limekilns, Craigcrook, Dysart, Canal Banks, Dalmahoy.

N. O.—**Lythraceæ**—The Loosestrife Family.

## LYTHRUM. LINN.

L. **Salicaria**, L. Purple Loosestrife.

*Damp places—July, August.*

Lochgelly, Dunfermline, Binny Wood near Whitekirk.

## PEPLIS. LINN.

P. **Portula**, L. Water Purslane.

*Damp places—July, August.*

Braid Hill marshes, Dalmahoy, Water of Leith.

*N. O.—Onagraceæ*—The Evening Primrose Family.

## EPILOBIUM. LINN.

E. *angustifolium*, L. Rose-bay Willow-herb.*Moist banks—July.*

Dunfermline, Lomond Hills, Habbie's Howe, Colinton, Raith, Roslin, Auchindinny, Yester, Dollar.

E. *hirsutum*, L. Great Hairy Willow-herb.*Wet places, by rivers, ditches, etc.—July, August.*

Duddingston Loch, Roman Camp, Dirleton, Abercorn Park Pond, North Berwick, Auchindinny, Musselburgh, North Queensferry, Seafield Tower, Prestonpans, Kilconquhar, etc.

E. *parviflorum*, Schreb. Small Flowered Hairy Willow-herb.*Damp places—July, August.*

Water of Leith, Duddingston, Roman Camp, Musselburgh, Bank of Canal, Aberlady, Luffness, Kilconquhar, Dollar, Yester, Habbie's Howe, etc.

E. *montanum*, L. Broad Smooth-leaved Willow-herb.*Dry stony places, frequent—June, July.*

North Queensferry, Queen's Park, Braid and Blackford Hills, Pentlands, Lasswade, Water of Leith, Drem, Kinardine, Lomond Hills, Dysart, Yester, Tynehead, etc.

E. *roseum*, Schreb. Pale Smooth-leaved Willow-herb.*Damp places—July, August.*

St. David's, North Berwick.

E. *tetragonum*, L. Square-stalked Willow-herb.*Sides of ditches and wet places—July, August.*

Duddingston, Water of Leith.

E. *obscurum*, Schreb. Obscure Willow-herb.*Wet places—July, August.*

Morningside.

**E. palustre**, L. Narrow-leaved Marsh Willow-herb.

*Bogs and marshy places—July, August.*

Duddingston, Ravelrig, Pentland Hills, Lochend, Braid Hills, Yester, Dunfermline, Habbie's Howe, Aberdour, etc.

**E. alpinum**, L. Alpine Willow-herb.

*Higher hills—July.*

Glen Queich, Ochil Hills, West Lomond Hill.

**E. alsinifolium**, Vill. Chickweed-leaved Willow-herb.

*Sides of streams on high hills—July.*

Glen Cairn, Ochil Hills, West Lomond Hill.

#### CENOTHERA. LINN.

**C. biennis**, L. Evening Primrose.

*Sandy soils—July—September.*

Esk near Musselburgh, Brig Nets Linlithgowshire. Introduced.

#### CIRCAEA. LINN.

**C. lutetiana**, L. Common Enchanter's Night-shade.

*Woods, etc.—June—August.*

Lasswade, near North Berwick, Colinton, Dalkeith, Raith, Roslin, Newbattle, Auchindinny, Granton, Corstorphine Hill, Falkland, Dollar, Dysart.

**C. alpina**, L. Alpine Enchanter's Night-shade.

*Woods—July, August.*

Yester, Lomond Hills.

*N. O.—***Halorageaceæ**—The Mare's Tail Family.

#### MYRIOPHYLLUM. LINN.

**M. spicatum**, L. Spiked Water-Milfoil.

*Ponds and ditches—July.*

Duddingston, Braid Hill marshes, Lochend, Ravelrig, Linlithgow Loch, Canal, Auchtertool Loch, Raith Pond, Dunfermline.

**M. alterniflorum**, DC. Alternate-flowered Water-Milfoil.

*Ponds and ditches—May—July.*

Braid Hill Marshes.

### HIPPURIS. LINN.

**H. vulgaris**, L. Common Mare's Tail.

*Ditches and stagnant water—June, July.*

Duddingston, Luffness, Gullane Loch, Lomond Hills, North Queensferry, Kilconquhar.

*N. O.—Portulacaceæ*—The Purslane Family.

### MONTIA. LINN.

**M. fontana**, L. Water Chickweed or Blinks.

*In wet places—May—August.*

Queen's Park, Pentlands, Habbie's Howe, Inverkeithing, Dalmahoy, Dalmeny, North Queensferry, Penicuick, Dollar, Lomond Hill, etc.

*N. O.—Paronychiaceæ*—The Knot-wort Family.

### LEPIGONUM. FRIES.

**L. rubrum**, Fr. Field Sandwort or Chickweed-Spurrey.

*Sandy fields and waste places—June—August.*

Queensferry, Burntisland and Pettycur, Musselburgh Links, Braid Hills, Leith Links, North Queensferry.

**L. marinum**, Wahl. Sea-side Sandwort or Sea-Spurrey.

*Muddy salt marshes—June—August.*

Prestonpans, Aberlady, Musselburgh, Inverkeithing, North Queensferry, Charleston, North Berwick.

## SPERGULA. LINN.

**S. arvensis**, L. Corn Spurrey.*Corn fields and cultivated land—June—August.*

Common.

*N. O.—Crassulaceæ—The Stone-crop Family.*

## SEDUM. LINN.

**S. Rhodiola**, DC. Rose-root.*Wet rocks in hilly places—June, July.*

Habbie's Howe, Pentland Hills, Lomond Hills, banks of stream above Currie.

**S. Telephium**, L. Orpine or Live-long.*Borders of fields, hedge-banks and thickets—July, August.*

Inverkeithing, Lasswade, Corstorphine, Roslin, Penicuick, North Queensferry, Dysart, Strathmiglo, North Berwick, Dollar.

**S. villosum**, L. Hairy Stone-crop.*Wet hilly places—June, July.*

Pentland Hills, Inverkeithing, Lomond Hills, Ravelrig, near Linlithgow, Dunfermline.

**S. album**, L. White Stone-crop.*Rocks and walls—July, August.*

Dirleton, Raith Crags, North Berwick. Introduced.

**S. anglicum**, Huds. English Stone-crop.*Rocky places—June—August.*

Dollar, Kincardine.

**S. dasypphyllum**, L. Thick-leaved White Stone-crop.*Rocks and walls—June, July.*

Dirleton, Colinton. Introduced.

**S. acre**, L. Wall Pepper or Biting Stone-crop.*Wall tops, dry and sandy places—June, July.*

Arthur's Seat, Craiglockhart, Blackford, Burntisland, Lomond Hills, Pentland Hills, North Queensferry, North Berwick, etc.

**S. reflexum**, L. Crooked Yellow Stone-crop.*Walls and rocks—July, August.*

Between Inverkeithing and St. David's, Tynehead, Ravelston, Preston, Balvaird Castle. Doubtful native.

## SEMPERVIVUM. LINN.

**S. tectorum**, L. Common House Leek.*Walls and house tops—July.*

Lasswade, Gullane, Colinton, Inverkeithing, Muttonhole. Introduced.

**N. O.—Grossulariaceæ**—The Gooseberry Family.

## RIBES. LINN.

**R. Grossularia**, L. Common Gooseberry.*Woods and hedges—April, May.*

Arniston, Granton, Musselburgh, Water of Leith, Roslin, Penicuick, Aberdour, Linton, Dalmahoy, Colinton, Dalkeith, Corstorphine, Dollar. Doubtful native.

**R. alpinum**, L. Tasteless Mountain Currant.*Woods—April, May.*

Penicuick, Roslin, Banks of Water of Leith, Auchindinny, Dalmeny, Habbie's Howe, Dalhousie, Musselburgh, Cramond. Probably introduced.

**R. nigrum**, L. Black Currant.*In damp situations—April, May.*

Roslin, Auchindinny, Water of Leith, Saughton Hall, Penicuick, Arniston, Musselburgh, Cramond, Kilconquhar, Dollar. Probably introduced.

**R. rubrum**, L. Common or Red Currant.

*Woods and hedges—April, May.*

Colinton, Roslin, Dalkeith, Musselburgh, Corstorphine, Gorebridge, Dalmahoy, Canal banks, Dollar. Probably introduced.

**N. O.—Saxifragaceæ**—The Saxifrage Family.

SAXIFRAGA. LINN.

**S. umbrosa**, L. London Pride, None-so-pretty, St. Patrick's Cabbage.

*Woods—June, July.*

Dysart, Colinton, Arniston, Auchindinny, Auchtertool, Roslin, Corstorphine, Newbattle, Tynehead, Falkland, Kinghorn, North Queensferry, Yester. Introduced.

**S. Geum**, L. Kidney-shaped Saxifrage.

*Woods—June.*

Dysart, Arniston, Colinton, Meadowbank, Falls of Clyde. Introduced.

**S. stellaris**, L. Starry Saxifrage.

*Marshy spots on the hills—July, August.*

Ochil Hills, West Lomond Hill.

**S. Hirculus**, L. Yellow Marsh Saxifrage.

*Wet moors—August.*

Source of the Medwin, Pentland Hills, 18 miles S. W. from Edinburgh.

**S. hypnoides**, L. Mossy Saxifrage or Ladies Cushion.

*Moist rocky hilly places—May, June.*

Dalmahoy, Glen Queich, Dollar, West Lomond Hill, Pentlands, Arthur's Seat, Habbie's Howe, Auchindinny.

**S. tridactylites**, L. Rue-leaved Saxifrage.

*Walls and banks—May—July.*

Dirleton, Gullane, Craiglockhart, Cockenzie, Kirkcaldy, Linton, Linlithgow.

**S. granulata**, L. White Meadow Saxifrage.*Dry banks and pastures—May, June.*

Arthur's Seat, Blackford, Arniston, Dalkeith, Braid Hills, Dalmeny, Roslin, Gosford, Craiglockhart, near Currie, Burntisland, North Queensferry.

**S. oppositifolia**, L. Purple Mountain Saxifrage.*Moist rocks—April, May.*

Allermuir Burn, Pentland Hills, Corra Linn.

## CHRYSOSPLENIUM.

**C. alternifolium**, L. Alternate-leaved Golden Saxifrage.*Wet shady places—March, April.*

Arniston Woods, Hawthornden, Lomond Hills, Roslin, Dalkeith, Penicuick, Bilton Burn, Water of Leith, Dollar, etc.

**C. oppositifolium**, L. Common Golden Saxifrage.*Damp shady places—April, May.*

Arniston, Roslin, Penicuick, Colinton, Auchindinny, Water of Leith, Braid Burn, Burntisland, Granton, Tynehead, Linlithgow, Prestonpans, Dalkeith.

*N. O.—Umbelliferæ—The Umbelliferous Family.*

## HYDROCOTYLE. LINN.

**H. vulgaris**, L. Marsh Penny-wort or Common White-rot.*Bogs and marshy places—May—July.*

Ravelrig, Braid Hills, Queen's Park, North Queensferry, Borthwick, Pentland Hills, Duddingston Loch, Lochend, Falkland, Gullane, Kincardine, Lomond Hills.

## SANICULA. LINN.

**S. europaea**, L. Wood Sanicle.

*Woods—June, July.*

Queen's Park, Slateford, Colinton, Currie, Auchindinny, Roslin, Braid Hermitage, Arniston Woods, Corstorphine, Granton Woods, Tynehead, Dysart, Dalkeith, Dollar.

## ERYNGIUM. LINN.

**E. maritimum**, L. Sea-Eryngo or Sea-Holly.

*Sandy sea coasts—July, August.*

North Berwick, near Burntisland, Musselburgh Links, Fisherrow Links, Largo Bay.

## CICUTA. LINN.

**C. virosa**, L. Cowbane or Water Hemlock.

*Sides of ponds and ditches—July, August.*

Lochend, Black Loch near Dunfermline, Otterston Loch.

## APIUM. LINN.

**A. graveolens**, L. Wild Celery, Smallage.

*Marshes and sides of streams—July, August.*

Musselburgh, Culross, Charleston, Kincardine.

## PETROSELINUM. HOFFM.

**P. sativum**, Hoffm. Common Parsley.

*Rocks, waste places and fields—June—August.*

North Queensferry, Newbattle, Salisbury Crags, Craigmillar, Cockenzie, Culross, between Colinton and Dreg-horn, Linton, Linlithgow, Kilconquhar. Introduced.

## HELOSCLADIUM. KOCH.

**H. nodiflorum**, Koch. Procumbent Marshwort.

*Sides of ditches and ponds—July, August.*

Duddingston Loch, Aberlady, and Gullane.

**B. repens**. Creeping Marshwort.

*Sides of streams and ponds—July, August.*

Duddingston, Gullane, Dirleton, Pond near Fisherrow.

**H. inundatum**, Koch. Least Marsh-wort or Water Hone-wort.

*Ponds and ditches—June, July.*

Braid Marshes, Ravelrig, Gullane, Kinghorn Loch, Dunfermline.

## ÆGOPODIUM. LINN.

**Æ. Podagraria**, L. Common Gout-weed or Bishop-weed, Ashweed, Herb Gerard.

*Damp places—June—August.*

Common.

## CARUM. LINN.

**C. Carui**, L. Common Caraway.

*Pastures and waste places—June.*

South and North Queensferry, Burntisland, Kincardine, Lochend, Abercorn, Penicuick, Dunfermline, Kinross. Introduced.

## BUNIUM. LINN.

**B. flexuosum**, With. Common Earth-nut or Pig-nut.

*Woods and pastures—May, June.*

Common.

## PIMPINELLA. LINN.

**P. magna**, L. Greater Burnet-Saxifrage.

*Shady places—July, August.*

Water of Leith near Ravelrig Toll, near Leny.

**P. Saxifraga**, L. Common Burnet-Saxifrage.

*Dry pastures—July—September.*

Salisbury Crags, North Berwick Law, Cramond, Braid Hills, North Queensferry.

## SIUM. LINN.

**S. latifolium**, L. Broad-leaved Water-parsnip.

*River sides and ditches—July, August.*

Dunbar.

**S. angustifolium**, L. Narrow-leaved Water-parsnip.

*Ditches and rivulets—July, August.*

Duddingston, Lochend, Longniddry, Seaton, Kilconquhar, Dollar.

## CENANTHE. LINN.

**C. Lachenalii**, Gmel. Parsley Water Dropwort.

*Marshes—July—September.*

Sea-shore near Dunbar.

**C. crocata**, L. Hemlock Water Dropwort.

*Wet places by ditches and ponds—July.*

Aberdour, Granton, Cramond, North Queensferry, Black Loch near Dunfermline, between Seaton and Gosford, Lasswade, Charleston, Kincardine, Kilconquhar.

**C. Phellandrium**, Lam. Fine-leaved Water Dropwort, Horsebane.

*Ditches and ponds—July—September.*

Corstorphine, Dunbar.

## ÆTHUSA. LINN.

**A. Cynapium**, L. Common Fool's Parsley.

*Fields and cultivated places—July, August.*

Corstorphine, Duddingston, Slateford, Salisbury Crags, Burntisland, Kinghorn.

## FCENICULUM. HOFFM.

**F. officinale**, All. Common Fennel.

*Rocks and waste places, generally near the sea—July, August.*  
Granton, Roadside near Newington. Introduced.

## HALOSCIAS. FRIES.

**H. scoticum**, Fr. Scottish Lovage.

*Rocky places by the sea—July.*

North Queensferry, Kinghorn, Wemyss, Kirkcaldy, St. David's, Pettycur, Cramond Island, Inchcolm, North Berwick, Dysart.

## SILAUS. BESSER.

**S. pratensis**, Bess. Meadow Pepper Saxifrage, Green Saxifrage or Sulphur-wort.

*Pastures and meadows—June—September.*

Roman Camp near Dalkeith, Tranent, Oxenford.

## MEUM. TOURN.

**M. athamanticum**, Jacq. Spignel, Meu, or Bald-money.

*Dry hilly pastures—June, July.*

Dunfermline, Glen Queich, Penicuick.

## ANGELICA. LINN.

**A. sylvestris**, L. Wild Angelica.

*Damp woods and marshy places—July, August.*

Water of Leith, Pentlands, Colinton, Roslin, Auchindinny, Queen's Park, Corstorphine Hill, Granton, Yester, etc.

## PEUCEDANUM. LINN.

P. **Ostruthium**, Koch. Broad-leaved Hog's Fennel or Masterwort.

*Moist pastures—June.*

Borthwick Castle, Dunfermline, Burntisland.

## HERACLEUM. LINN.

H. **Sphondylium**, L. Common Cow Parsnep or Hog-weed.

*Hedge banks and pastures—July.*

Common.

**S. angustifolium**. Narrow-leaved Cow Parsnep.

Queen's Park, Kirkliston.

## DAUCUS. LINN.

D. **Carota**, L. Wild Carrot, Bird's Nest.

*Pastures and borders of fields—June—August.*

Queen's Park, Granton, Burntisland, North Queensferry.

## TORILIS. ADANS.

T. **Anthriscus**, Gaert. Upright Hedge-Parsley.

*Hedge banks and waste places—July—September.*

Queen's Park, Colinton, Currie, Kincardine, North Berwick, etc.

T. **infesta**, Spr. Spreading Hedge-Parsley, or Small Corn-Parsley.

*Fields and roadsides—July—September.*

Canonmills. Not now to be found.

T. **nodosa**, Gaert. Knotted Hedge-Parsley, or Hedgehog-Parsley.

*Dry waste places and roadsides—May—July.*

Queen's Park, Burntisland, Kinghorn, Duddingston.

## SCANDIX. LINN.

**S. Pecten-veneris**, L. Common Shepherd's Needle or Venus' Comb.

*Corn fields and waste places—June—September.*

Corstorphine, Dalhousie, Inverkeithing, Dirleton, Burnt-island, Queensferry, etc.

## ANTHRISCUS. HOFFM.

**A. sylvestris**, Hoffm. Wild Chervil or Beaked-Parsley.

*Hedge banks and borders of fields—April—June.*

Common.

**A. Cerefolium**, Hoffm. Garden Chervil.

*Waste places—May, June.*

Granton, Caroline Park, and other places near Edinburgh.  
An escape from gardens.

**A. vulgaris**, Pers. Common Beaked-Parsley, or Small Hemlock Chervil.

*Waste places and roadsides—May, June.*

Salisbury Crags, Duddingston, Lochend, North Queensferry, Braid Hills, Aberdour, Musselburgh, Kinghorn, Prestonpans, Kincardine, Linton, Penicuick, etc.

## CHÆROPHYLLUM. LINN.

**C. temulum**, L. Rough Chervil.

*Hedge banks and roadsides—June, July.*

Common.

**C. aureum**, L. Tawny-fruited Chervil.

*Fields—June.*

“Near Corstorphine,” G. Don. Doubtful native.

## MYRRHIS. SCOP.

**M. odorata**, Scop. Sweet Cicely.

*Pastures and waste places—May, June.*

Caroline Park, Colinton, Arniston, Dalkeith, Musselburgh, Currie, Burntisland, Penicuick, North Queensferry.

## CONIUM. LINN.

**C. maculatum**, L. Common Hemlock.

*Waste places and banks—June, July.*

Salisbury Crags, Duddingston, North Queensferry, North Berwick, Linton, Kincardine, Kinghorn.

## SMYRNIUM. LINN.

**S. Olusatrum**, L. Common Alexanders.

*Waste places, and near ruins—May, June.*

Craigmillar, Ravenscraig, Dirleton.

[**Coriandrum sativum**, L. Common Coriander.

Is sometimes found ; but it is introduced.]

*N. O.—Araliaceæ—The Ivy Family.*

## ADOXA. LINN.

**A. Moschatellina**, L. Tuberous Moschatel.

*Woods and shady places—April, May.*

Roslin, Craiglockhart, Dalkeith, Arniston, Currie, Auchindinny, Braid Burn, Colinton, Penicuick, Tynehead.

## HEDERA. LINN.

**H. Helix**, L. Common Ivy.

*Rocks, walls, and trunks of trees—October, November.*

Dalhousie, Arniston, Roslin, North Queensferry, Musselburgh, Salisbury Crags, Kinghorn, Hopetoun, etc.

*N. O.—Cornaceæ—The Cornel Family.*

## CORNUS. LINN.

**C. sanguinea**, L. Wild Cornel or Dogwood.*Woods and thickets—June, July.*

Ravelrig, Dalhousie, Gosford, Arniston, Dalmahoy, Dalmeny, Dalkeith. Introduced.

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SUB-CLASS II.—CALYCIFLORÆ.

## SECT. II.—GAMOPETALÆ.

*N. O.—Caprifoliaceæ—The Honeysuckle Family.*

## SAMBUCUS. LINN.

**S. Ebulus**, L. Dwarf Elder or Danewort.*Hedge banks and waste places—August.*

Inverkeithing.

**S. nigra**, L. Common Elder.*Woods and hedges—June.*

Colinton, Newbattle, Habbie's Howe, Dalmahoy, Queen's Park, etc.

## VIBURNUM. LINN.

**V. Lantana**, L. Mealy Guelder-rose or Wayfaring Tree.*Woods and hedges—May, June.*

Craiglockhart, Ravelrig, Arniston, Colinton, Roslin. Doubtful native.

**V. Opulus**, L. Common Guelder-rose.*Woods and hedges—June, July.*

Crichton Castle, Roman Camp, Habbie's Howe, Arniston, Roslin, Gosford, Auchindinny, Yester, Dollar. Doubtful native.

## LONICERA. LINN.

**L. Caprifolium**, L. Pale Perfoliate Honeysuckle.

*Woods and thickets—May, June.*

Dalmeny, Colinton, Craiglockhart, Corstorphine, Linlithgow, Linton.

**L. Periclymenum**, L. Common Honeysuckle or Woodbine.

*Woods and hedges—June—September.*

Roslin, Arniston, Colinton, Habbie's Howe, Dalkeith, Kilconquhar, Dysart, Yester, Braid, North Queensferry Dollar.

**L. Xystosteum**, L. Upright Fly Honeysuckle.

*Woods and thickets—May, June.*

Slateford, Colinton, North Berwick. Introduced.

[**L. alpigena**, L. Alpine Honeysuckle.

Is found in woods at Slateford. Introduced.]

## LINNÆA. GRONOV.

**L. borealis**, Gron. Two-flowered Linnaea.

*Woods, especially of fir—July.*

Fir plantation at Ravelrig.

## N. O.—GALIACEÆ—The Madder Family.

## SHERARDIA. LINN.

**S. arvensis**, L. Blue Sherardia or Field-Madder.

*Fields and pastures—April—October.*

Arthur's Seat, Borthwick Castle, North Queensferry, Caroline Park, Burntisland, etc.

## ASPERULA. LINN.

**A. odorata**, L. Sweet Woodruff.

*Woods and shady places—May, June.*

Colinton, Arthur's Seat, Auchindinny, Dalkeith, Roslin, North Queensferry, Burntisland, etc.

[**A. taurina**, L.]

Has been found at Arniston and Burntisland; but it is introduced, and is not a native.

## GALIUM. LINN.

**G. boreale**, L. Cross-leaved Bed-straw.

*Moist rocky places—July, August.*

West Lomond Hill, Dollar, Falls of Clyde.

**G. cruciatum**, With. Crosswort or Mugwort.

*Hedge banks and thickets—May, June.*

Queen's Park, Dalhousie, Roslin, Burntisland, etc.

**G. Aparine**, L. Goose-grass or Cleavers.

*Hedges—June—August.*

Queen's Park, Roslin, Burntisland, etc.

**G. erectum**, Huds. Upright Bed-straw.

*Hedges and pastures—June, July.*

Dalmahoy, Portobello, Slateford.

**G. cinereum**. Slateford.

**G. Mollugo**, L. Great Hedge Bed-straw.

*Hedges and thickets—July, August.*

Corstorphine, Dirleton, Kirkliston, Dalhousie, Dreghorn.

**G. verum**, L. Yellow Bed-Straw.

*Dry sandy places—June—September.*

Queen's Park, Dalmahoy, Roslin, Queensferry, etc.

**G. saxatile**, L. Smooth Heath Bed-straw.

*Heathy places—July, August.*

Arthur's Seat, Pentlands, Roslin, Dalmahoy, Habbie's Howe, North Queensferry, etc.

**G. sylvestre**, Poll. Least Mountain Bed-straw.*Hilly places—June, July.*

Pentland Hills, Habbie's Howe, Dollar.

**G. uliginosum**, L. Rough Marsh Bed-straw.*Wet places—July, August.*

Duddingston Loch, Borthwick Castle, Ravelrig, Leadburn.

**G. palustre**, L. White Water Bed-straw.*Sides of ditches and ponds—July, August.*

Duddingston, Dalmeny, Pentlands, Ravelrig, etc.

*N. O.—Valerianaceæ—The Valerian Family.*

## CENTRANTHUS. CAND.

**C. ruber**, DC. Red Valerian.*Old walls and rocks—June—September.*

Burntisland, Colinton, Inverkeithing, Currie, Dirleton, Kinghorn. Doubtful native.

## VALERIANA. LINN.

**V. officinalis**, L. Wild Valerian.*Ditches, banks of rivers and moist woods—June—August.*

Queen's Park, Lasswade, Habbie's Howe. Water of Leith, Dysart, North Berwick, Tynehead, etc.

**V. pyrenaica**, L. Heart-leaved Valerian.*Woods—June, July.*

Colinton, Abercorn, Roslin, Raith, Linlithgow, Cramond, Arniston, Dysart, Currie.

**V. dioica**, L. Small Marsh Valerian.*Marshy places—May, June.*

Kennoway, Borthwick Castle, Roman Camp, Currie, Newbattle, Linlithgow, Pentlands, Gorebridge, West Linton.

## VALERIANELLA. MENCH.

**V. olitoria**, Menc. Common Corn-Salad or Lamb's Lettuce.

*Banks and corn fields—May, June.*

Queen's Park, Burntisland, Colinton, Roslin, Prestonpans, Lasswade, North Queensferry, etc.

**V. Auricula**, DC. Sharp-fruited Corn-Salad.

*Cultivated fields—July, August.*

North Queensferry.

**V. dentata**, Deitr. Smooth Narrow-fruited Corn-Salad.

*Hedge banks and corn fields—June—August.*

Limekilns, Burntisland, North Queensferry, Raith, Gullane, Kirkcaldy, Yester.

**β. eriocarpa**. North Queensferry.

*N. O.—Dipsacaceæ—The Teasel Family.*

## DIPSACUS. LINN.

**D. sylvestris**, L. Wild Teasel.

*Roadsides and hedges—August, September.*

Inchcolm, Limekilns, Donibristle, Charleston, Pentland Hills, south side of Duddingston Loch, Dysart, Kinghorn, Kincardine, Burntisland.

**D. pilosus**, L. Small Teasel or Shepherd's-Rod.

*Railway embankments—August.*

Near Warriston. Introduced.

## KNAUTIA. COULT.

**K. arvensis**, Coult. Field Scabious.

*Fields and pastures—July—September.*

Newhaven, Burntisland, Colinton, Water of Leith, Banks of Esk and Almond, North Berwick, Drem, North Queensferry, etc.

## SCABIOSA. LINN.

**S. succisa**, L. Devil's Bit Scabious.

*Meadows and pastures—July—October.*

Pentland Hills, Ravelrig, Colinton, Queen's Park, Dollar, Dunfermline, West Lomond.

**S. Columbaria**, L. Small Scabious.

*Pastures and sandy places—July, August,*  
Shore east from North Berwick, Dollar.

*N. O.—Compositæ*—The Composite Family.

## EUPATORIUM. LINN.

**E. cannabinum**, L. Common Hemp-Agrimony.

*Banks of streams—July—September.*

Aberdour and Burntisland, Roslin, Kinghorn, Ravenscraig Castle, Lasswade.

## PETASITES. GAERT.

**P. vulgaris**, Desf. Common Butter-bur.

*Wet places—March, April.*

Colinton, Currie, Dalkeith, Water of Leith, Banks of Esk, Burntisland, Penicuick, etc.

[**P. fragrans**, Presl. Fragrant Butter-bur.

Is naturalized in a wood near North Berwick ; found also at St. Andrews and Granton.]

[**P. albus**, Gaert. White Butter-bur.

Is found at Auchtertool. Introduced and not native.]

## TUSSILAGO. LINN.

**T. Farfara**, L. Coltsfoot.

*Moist and clay soils—March, April.*

Queen's Park, Roslin, Water of Leith, etc. Common.

## ASTER. LINN.

**A. Tripolium**, L. Sea Starwort or Michaelmas Daisy.

*Salt marshes—August, September.*

Morrison's Haven, Burntisland, Inverkeithing, Aberlady, Charleston, Limekilns, Kincardine, North Queensferry, Tynningham, North Berwick, etc.

## BELLIS. LINN.

**B. perennis**, L. Common Daisy or Gowan.

*Pastures—February—November.*

Queen's Park, etc. Very common.

## SOLIDAGO. LINN.

**S. Virgaurea**, L. Common Golden Rod.

*Woods and thickets—July—September.*

Colinton, West Lomond Hill, Burntisland, Ravelrig, Ravenscraig Castle, Roslin, Dollar.

**β. cambrica**, Pentland Hill.

## INULA. LINN.

**I. Helenium**, L. Elecampane.

*Moist places—July, August.*

Roadside 6 miles north-west from Dunfermline. Introduced.

## PULICARIA. GAERT.

**P. dysenterica**, Gaert. Common Flea-bane.

*Moist and watery places—July—September.*

Seaton Links, Longniddry.

## BIDENS. LINN.

**B. tripartita**, L. Trifid Bur-Marigold.

*Marshy places, sides of ponds—July—September.*

Duddingston Loch, Linlithgow Loch, Loch Leven.

**B. cernua**, L. Nodding Bur-Marigold.*Sides of ditches and ponds—July—October.*

Duddingston Loch, Otterston Loch, Lochend, near Rosyth Castle, Kilconquhar.

## ANTHEMIS. LINN.

**A. arvensis**, L. Dog's or Corn Chamomile.*Fields and waysides—June, July.*

Prestonhall, Crookston, Lasswade, Linlithgow, Roslin, Auchindinny, Newbattle, North Queensferry, Burnt-island.

**A. tinctoria**, L. Ox-eye Chamomile.*Fields and waste places—July, August.*

St. Davids. Introduced ; not native.

**A. Cotula**, L. Stinking Chamomile.*Fields and waste places—July—September.*

Drem, Charleston, Dunfermline, St. Davids, North Queensferry, Aberlady, Roslin, Dirleton.

## ACHILLEA. LINN.

**A. Ptarmica**, L. Sneeze-wort.*Moist meadows and pastures—July, August.*

Pentland Hills, Ravelrig, Auchindinny, Queen's Park, Dalhousie, etc.

**A. Millefolium**, L. Common Yarrow or Milfoil.*Pastures and roadsides—June—September.*

Queen's Park, etc. Very common.

## CHRYSANthemum. LINN.

**C. Leucanthemum**, L. Great White Ox-eye.*Dry pastures—June—August.*

Craigeleigh, Queen's Park, etc. Very common.

**C. segetum**, L. Corn Marigold or Yellow Ox-eye.*Corn fields—June—September.*Dalhousie, North Queensferry, Burntisland, Inverkeithing,  
Aberlady, Dysart, etc.

## MATRICARIA. LINN.

**M. Parthenium**, L. Common Feverfew.*Waste places—July—September.*Pettycur, Aberdour, Aberlady, Caroline Park, Dalkeith,  
Colinton, North Berwick, Dysart.**M. inodora**, L. Corn Feverfew or Scentless Mayweed.*Fields and waste places—June—September.*

Queen's Park, etc. Very common.

**M. Chamomilla**, L. Common Wild Chamomile.*Fields and waste ground—June, July.*

Colinton, Parkhead, Queen's Park, St. Davids, Inverkeithing.

## ARTEMISIA. LINN.

**A. Absinthium**, L. Common Wormwood.*Waste places—July, August.*Morrison's Haven, Inverkeithing, Burntisland, Inchcolm,  
North Queensferry, Aberlady, Dysart, Kincardine,  
Dollar.**A. vulgaris**, L. Common Mugwort.*Hedges and waste places—July, September.*Caroline Park, Prestonpans, Slateford, Blackford, Braid  
Hills, etc. Common.**A. maritima**, L. Sea Wormwood.*Sea shores and in salt marshes—August, September.*

Gullane, Aberlady, Dunbar.

**β. gallica**. Mouth of Tyne near Tynningham.

## TANACETUM. LINN.

**T. vulgare**, L. Common Tansy.

*Borders of fields and waysides—August.*

Musselburgh, Burntisland, Lomond Hills, Kileconquhar, Kincardine, North Queensferry, Linton, Falkland, Dollar.

## FILAGO. LINN.

**F. germanica**, L. Common Filago or Cudweed.

*Sandy places—July, August.*

Queen's Park, Blackford Hill, Lasswade, Slateford, Drem, North Berwick, Linton, North Queensferry.

**F. minima**, Fr. Least Filago.

*Dry sandy places—June—September.*

Dalmahoy Hill, Dunbar, Queen's Park, Musselburgh, Blackford, Dalkeith, North Berwick, Dirleton.

## GNAPHALIUM. LINN.

**G. uliginosum**, L. Marsh Cudweed.

*Wet sandy places—July—September.*

Pentland Hills, Braid Hills, Kirkliston, Burntisland, Dunfermline, Dollar.

**G. sylvaticum**, L. Highland Cudweed.

*Woods and heaths—July—September.*

Currie, Roslin, North Queensferry, Burntisland, Pentland Hills, Dunfermline.

**G. supinum**, L. Dwarf Cudweed.

*Alpine situations—July, August.*

Ben Clach Ochils.

## ANTENNARIA. R. BR.

**A. dioica**, Gaert. Mountain Everlasting or Cat's-foot.

*Alpine heaths—June, July.*

North Queensferry, Arthur's Seat, Lomond Hills, Dalmahoy, Pentland Hills, Ochil Hills, Dunfermline, Tynehead, Dollar.

## DORONICUM. LINN.

**D. Pardalianches**, L. Great Leopard's-bane.

*Damp woods—May—July.*

Roslin, Colinton, Culross, Currie, Ravelston, Arniston, Raith, Inveresk, Cramond, Tynehead.

**D. plantagineum**, L. Plantain-leaved Leopard's-bane.

*Damp places—June, July.*

Arniston, Dysart, Dalhousie, Cleish Castle, Raith, Musselburgh, Kincardine, Tynehead, Burntisland.

## SENECIO. LINN.

**S. vulgaris**, L. Common Groundsel.

*Fields and waste places—January—December.*

Queen's Park, etc. Very common.

**S. viscosus**, L. Stinking Groundsel.

*Waste ground—July, August.*

Queen's Park, Blackford, Dysart, Burntisland, Kincardine, North Queensferry, Dollar.

**S. sylvaticus**, L. Mountain Groundsel.

*Dry banks and gravelly pastures—July—September.*

Blackford Hill, Aberdour, Dunbar, North Queensferry, Kincardine.

**S. Jacobæa**, L. Common Ragwort.*Waste ground and neglected pastures—July—September.*

Queen's Park, Burntisland, etc. Common.

**S. aquaticus**, Huds. Marsh Ragwort.*Marshy places, by rivers and ditches—July, August.*

Duddingston, Ravelrig, Auchindinny, Kinross, Dunfermline, North Berwick, Kilconquhar.

**S. saracenicus**, L. Broad-leaved Groundsel.*Moist watery places—July, August.*

Bathgate, Raith. Introduced.

## ARCTIUM. LINN.

**A. majus**, Schk. Great Burdock.*Waste places—August.*

Dirleton, Donibristle, Queensferry.

**A. minus**, Schk. Lesser Burdock.*Waste places—August.*

Dysart, Yester, Habbie's Howe, North Berwick, etc.

## CENTAUREA. LINN.

**C. nigra**, L. Black Discoid Knapweed.*Meadows and pastures—June—September.*

Queen's Park, Braid and Blackford Hill, etc. Common.

Heads sometimes radiant.

**C. Cyanus**, L. Corn Bluebottle.*Corn fields—June—August.*

Dalkeith, Burntisland, Currie, Arniston, Roslin, etc.

**C. Scabiosa**, L. Greater Knapweed.*Corn fields and waste places—July—September.*

Dirleton, Gullane, Aberlady, Gosford, Kilconquhar, Largo.

**[C. montana**, L. Mountain Knapweed.

Found in Colinton Woods, etc, but not native.]

## ONOPORDUM. LINN.

**O. Acanthium**, L. Common Cotton Thistle, Scotch Thistle of Gardeners.

*Waste places—August.*

Coast between Portobello and Gosford, Inverkeithing, Dalkeith, Wemyss, Limekilns, Charleston. Introduced.

## CARDUUS. LINN.

**C. nutans**, L. Musk Thistle.

*Waste ground—May—October.*

Musselburgh, Cockenzie, Gullane, Fisherrow, Aberlady, Drem.

**C. crispus**, L. Crisped or Welted Thistle.

*Dry banks and waste places—June—August.*

**$\beta.$  acanthoides.** Queen's Park, Currie, Banks of Water of Leith, Dollar, St. Davids, North Queensferry, North Berwick.

**C. tenuiflorus**, Curt. Slender-flowered Thistle.

*Waste sandy places—June—August.*

Musselburgh, Prestonpans, North Queensferry, Inverkeithing, Drem, Dysart, North Berwick, Kilconquhar.

**C. lanceolatus**, L. Spear Thistle.

*Waste places—July, August.*

Queen's Park, Roslin, Arniston, Gullane, etc.

**C. eriophorus**, L. Woolly-headed Thistle.

*Waste places—July, August.*

Roadside between Oxenford Castle and Chesterhall, Blackness, North Queensferry.

**C. arvensis**, Curt. Creeping Thistle.

*Fields and roadsides—July, August.*

Queen's Park, Pentlands, North Queensferry, Cleish Hills, Musselburgh, North Berwick, Strathmiglo, Kilconquhar, Falkland, Drem, Kincardine.

**$\beta.$  setosus**, Culross, Dunfermline, St. Andrews.

**C. palustris**, L. Marsh Thistle.*Wet meadows and marshy places—July, August.*Pentland Hills, Queen's Park, Roslin, Tynehead, Dysart,  
etc. .**C. heterophyllus**, L. Melancholy Thistle.*Moist upland pastures and woods—July, August.*Roslin, Auchindinny, Pentlands, Currie, Mid-Calder,  
Drem, Kirknewton, Dollar.

## SILYBUM. GAERT.

**S. marianum**, Gaert. Milk Thistle, Lady's Thistle.*Banks and waste places—July.*Burntisland, Kirkcaldy, Limekilns, Borthwick Castle,  
Inchkeith, North Berwick.

## LAPSANA. LINN.

**L. communis**, L. Common Nipplewort.*Waste and cultivated ground—July, August.*

Queen's Park, Craigmillar Castle, North Queensferry, etc.

## CICHORIUM. LINN.

**C. Intybus**, L. Wild Succory or Chicory.*Borders of fields and waste places—July—September.*Granton, Queen's Park, St. Davids, North Berwick. In-  
troduced.

## HYPOCHŒRIS. LINN.

**H. glabra**, L. Smooth Cat's Ear.*Sandy and gravelly places—July, August.*

Field near Culross.

**H. radicata**, L. Long-rooted Cat's Ear.*Meadows, pastures, and roadsides—July.*

Queen's Park, Roslin, Pentlands, Aberdour, etc. Common.

## THRINCIA. ROTH.

**T. hirta**, DC. Hairy Thrincia.

*Gravelly pastures—July, August.*

Gullane Links, North Berwick, North Queensferry.

## APARGIA. SCHREB.

**A. hispida**, Willd. Rough Hawkbit.

*Meadows and pastures—June—September.*

Colinton, Crookston, Queen's Park, Newbattle, Gullane, Water of Leith, Roslin, Tynehead, Yester, etc.

**A. autumnalis**, Willd. Autumnal Hawkbit.

*Meadows and pastures—August.*

Pentland Hills, Kincardine, Kinross, Habbie's Howe, North Berwick.

## TRAGOPOGON. LINN.

**T. minor**, Fries. Lesser Goat's Beard.

*Meadows and pastures—June, July.*

Queen's Park, Caroline Park, North Berwick, Kinghorn, Yester, Drem, Burntisland, Kilconquhar.

**T. pratensis**, L. Great Yellow Goat's Beard.

*Meadows and pastures—June.*

Queen's Park, between Coltbridge and Saughton Hall, Burntisland, Cockenzie, Caroline Park.

## LACTUCA. LINN.

**L. virosa**, Strong-scented or Acrid Lettuce.

*Dry banks—July, August.*

Rocks below the basaltic columns on Arthur Seat, Stirling Castle.

**L. muralis**, DC. Ivy-leaved Lettuce.

*Old walls and in woods—June—August.*

Near Musselburgh, Inverleith Row. Introduced.

## LEONTODON. LINN.

**L. Taraxacum**, L. Common Dandelion.*Roadsides, meadows and pastures—March—October.*

Queen's Park, etc. Very common.

**β. lavigatum**, Burntisland Links.**γ. erythrospermum**. Hunter's Bog.**δ. palustre**. Gullane, North Berwick.

## SONCHUS. LINN.

**S. oleraceus**, L. Common Annual Sow-Thistle.*Waste places and cultivated ground—June—August.*

Queen's Park, Dalhousie, North Queensferry, etc. Common.

**S. asper**, Hoffm. Sharp-fringed Annual Sow-Thistle.*Waste and cultivated places—June—August.*

Queen's Park, Raith, etc. Common.

**S. arvensis**, L. Corn Sow-Thistle.*Fields and waste places—August, September.*Slateford, Burntisland, Colinton, North Queensferry, etc.  
Common.**S. palustris**, L. Tall Marsh Sow-Thistle.*Marshy places—July, August.*

Lochend. Not found there of late.

## CREPIS. LINN.

**C. virens**, L. Smooth Hawk's Beard.*Dry pastures, etc.—June—September.*

Queen's Park, Colinton, Burntisland, Dirleton, Linton, etc.

**C. biennis**, L. Rough Hawk's Beard.*Pastures—June, July.*

Aberlady, Luffness, Drem, North Berwick.

**C. succisæfolia**, Tausch. Succory-leaved Hawk's Beard.

*Woods—July, August.*

Habbie's Howe, Glen Devon.

**C. paludosa**, Mœnch. Marsh Hawk's Beard.

*Moist woods and damp shady places—July—September.*

Arniston, Roslin, Colinton, etc.

### HIERACIUM. LINN.

**H. Pilosella**, L. Common Mouse-ear Hawk-weed.

*Dry banks and pastures—May—August.*

Queen's Park, Pentlands, Burntisland, etc.

**H. aurantiacum**, L. Orange Hawk-weed.

*Woods and waste places—June, July.*

Arniston, Borthwick, Currie Hill, Dollar. Introduced.

**H. senescens**, Backh. Hoary Hawk-weed.

*Mountains—July, August.*

West Lomond Hill.

**H. chrysanthum**, Backh. Golden-flowered Hawk-weed.

*Lofty hills—July, August.*

West Lomond Hill.

[**H. amplexicaule**, L. Amplexicaul Hawk-weed.

*Mountains and rocks—July, August.*

Cleish Castle. Introduced, not native.]

**H. cerinthoides**, L. Honey-wort Hawk-weed.

*Rocky, hilly places—July, August.*

Near North Queensferry, between Pettycur and Burntisland.

*α. Lawsoni.* Queensferry, and other places in Fife.

*β. anglicum.* Dalhousie.

**H. murorum**, L. Wall Hawk-weed.*Rocks and woods—June, July.*

Currie, Slateford, Queen's Park, Pentland Hills, Roslin,  
North Queensferry, Strathmiglo, Kinghorn, Dalmahoy,  
Kincardine.

**H. vulgatum**, Fr. Common Wood Hawk-weed.*Woods, banks and walls—July—September.*

Morton Hall, Ochils, Queen's Park, Habbie's Howe, Burnt-island, Penicuick, etc.

**H. prenanthoides**, Vill. Rough-bordered Hawk-weed.*River sides—July, August.*

Habbie's Howe, Cramond Bridge, North Berwick, Stirling.

**H. strictum**, Fr. Straight-branched Hawk-weed.*Hilly places—July, August.*

Woodcockdale, Ochil Hills.

**H. boreale**, Fr. Shrubby broad-leaved Hawk-weed.*Woods—July—October.*

Morton Hall, Rumbling Bridge, Roslin, Auchindinny, Arniston, Colinton, Dalhousie.

*N. O.—Campanulaceæ—The Harebell Family.*

## CAMPANULA. LINN.

**C. glomerata**, L. Clustered Bell-flower.*Dry pastures—July, August.*

Pettycur, Gosford, Kinghorn, Cockenzie, Dysart, Raith, Kirkcaldy, North Berwick.

**C. latifolia**, L. Giant Bell-flower.*Moist shady woods—July, August.*

Roslin, Colinton, Craigmor, Castle Campbell, Raith.

**C. Trachelium**, L. Nettle-leaved Bell-flower.

*Woods—July, August.*

Colinton, Inverkeithing, Lasswade, Donibristle, Luffness.

**C. rapunculoides**, L. Creeping Bell-flower.

*Woods and fields—July, August.*

Braid Hills, Corn fields 2 miles north-west from Kirkcaldy, Raith, Luffness, Gullane, Inveresk, Musselburgh, near Charleston, Balmerino Fife. Doubtful native.

**C. rotundifolia**, L. Round-leaved Bell-flower or Hare-bell.

*Dry hilly pastures—July, August.*

Queen's Park, Blackford Hill, Dalmahoy, etc. Common.

[**C. persicifolia**, L. Peach-leaved Bell-flower.

*Woody places—July.*

Bed of Esk near Musselburgh. Introduced and not native.]

**C. Rapunculus**, L. Rampion Bell-flower.

*Sandy places—July, August.*

Limekilns. Introduced.

**C. patula**, L. Spreading Bell-flower.

*Pastures—July—September.*

Bilston (H. Graham). Introduced.

### SPECULARIA. HEIST.

**S. hybrida**, DC. Corn Bell-flower.

*Corn fields and waste places—June—September.*

Dirleton, Luffness.

### JASIONE. LINN.

**J. montana**, L. Annual Sheeps-bit or Scabious.

*Dry heathy pastures—June—September.*

Gravelly soil at Cartland Crags.

*N. O.—Vacciniaceæ*—The Cranberry Family.

## VACCINIUM. LINN.

V. **Myrtillus**, L. Bilberry, Blaeberry or Whortleberry.*Woods and heathy places—April—June.*

Roslin, Auchindinny, Braid, Pentland Hills, Arniston, etc.

V. **Vitis-idæa**, L. Red Whortleberry or Cowberry, called often Cranberry in the Highlands of Scotland.*Heaths and woods—June, July.*

Pentland Hills above Swanston, Lomond Hills, Dollar.

V. **Oxycoccus**, L. Marsh Whortleberry or Cranberry.*Peat bogs, especially among Sphagnum—June, July.*

Pentland Hills, foot of Knock Hill, Otterston Loch, Lomonds, Dollar.

## SUB-CLASS III.—COROLLIFLORÆ.

*N. O.—Ericaceæ*—The Heath Family.

## CALLUNA. SALISB.

C. **vulgaris**, Salisb. Common Ling or Heather.*Heaths and moors—June—August.*

Pentland Hills, Roslin, Roman Camp, Dunfermline, Dysart, etc.

Sometimes with white flowers, and sometimes with hoary leaves.

## ERICA. LINN.

E. **Tetralix**, L. Cross-leaved Heath.*Heaths and moory ground—July, August.*

Pentland Hills, Ravelrig, Dunfermline, Dysart, Yester, Lomond Hills, Tynthead, Dollar.

**E. cinerea**, L. Fine-leaved Heath.

*Heaths—July—September.*

Pentland Hills, Roslin, Falkland, Dunfermline, North Queensferry, Tynemouth, Kincardine, Burntisland, Dollar.

*N. O.—Pyrolaceæ*—The Winter Green Family.

PYROLA. LINN.

**P. rotundifolia**, L. Round-leaved Winter Green.

*Moist woods—July—September.*

Auchindinny, Lethensden Black Devon.

**P. media**, Sm. Intermediate Winter Green.

*Woods—July, August.*

Tynehead, Bilston, Black Devon, Cardenden, near Kirk-caldy, Dunfermline, Dollar.

**P. minor**, L. Lesser Winter Green.

*Mossy woods—July.*

Auchindinny and Roslin, Ravelrig, Queensferry, Dreghorn.

*N. O.—Aquifoliaceæ*—The Holly Family.

ILEX. LINN.

**I. Aquifolium**, L. Common Holly.

*Woods, hedges and rocks—May—August.*

Samson's Ribs, Aberdour, Prestonhall, Dalmeny, Dalkeith, Roslin, Penicuick.

*N. O.—Oleaceæ*—The Olive Family.

LIGUSTRUM. LINN.

**L. vulgare**, L. Privet.

*Hedges and thickets—June, July.*

Colinton, Musselburgh, Dalhousie, Roslin, Currie, Dalkeith. Introduced.

## FRAXINUS. LINN.

**F. excelsior**, L. Common Ash.*Woods and hedges—April, May.*

Dalmeny, Banks of Esk above Musselburgh, Colinton, Roslin, Auchindinny, Penicuick, Gorebridge, etc.

*N. O.—Apocynaceæ*—The Dogbane Family.

## VINCA. LINN.

**V. minor**, L. Lesser Periwinkle.*Woods and banks—May, June.*

Roslin, Arniston, Auchindinny, Colinton, Newbattle, Raith, Dalkeith, Penicuick, etc.

Flowers occasionally white.

**V. major**, L. Greater Periwinkle.*Woods and banks—April, May.*

Colinton, Arniston, Dundas Hill, Roslin, Burntisland, Raith, Corstorphine. Naturalized.

*N. O.—Gentianaceæ*—The Gentian Family.

## ERYTHRÆA. RENEALM.

**E. pulchella**, Fries. Dwarf-branched Centaury.*Sandy places—July—September.*

Gullane Links, North Berwick.

**E. Centaurium**, Pers. Common Centaury.*Dry pastures—July, August.*

Roslin, Auchindinny, Gullane Links, Dunearn Hill, North Queensferry, Linton, Yester, Dollar.

**E. littoralis**, Fries. Dwarf-tufted Centaury.*Sandy places near the sea—June—August.*

Gullane Links.

## GENTIANA. LINN.

**G. Amarella**, L. Small-flowered Gentian, Fellwort.

*Dry pastures—July—September.*

Roman Camp, Gullane Links, Gosford.

**G. campestris**, L. Field Gentian.

*Hilly pastures—August, September.*

North Queensferry, Cockenzie, between Pettycur and Burntisland, Queen's Park, Pentland Hills, Gullane, Dollar, North Berwick.

[**G. acaulis**, L. Gentianella or Stemless Gentian.

Is found at Tynehead and other places, but it is an escape from gardens.]

## MENYANTHES. LINN.

**M. trifoliata**, L. Buckbean, Bogbean or Marsh Trefoil.

*Marshy and boggy places—May—July.*

Ravelrig, Duddingston, Lochend, Braid Hills, Pentland Hills, etc.

*N. O.—Polemoniaceæ*—The Phlox Family.

## POLEMONIUM. LINN.

**P. cæruleum**, L. Blue Jacob's Ladder, or Greek Valerian.

*Banks and bushy places—June, July.*

Arniston, Dysart, Queensferry, Dalmeny, Lanark. Probably introduced.

Flowers sometimes white.

*N. O.—Convolvulaceæ*—The Bindweed Family.

## CONVOLVULUS. LINN.

**C. arvensis**, L. Small Bindweed.

*Fields and hedges—June, July.*

Charleston, Pettycur and Kinghorn, Burntisland, Drem, Gullane, etc.

C. **sepium**, L. Great Hooded Bindweed.

*Woods and hedges—June—August.*

Inveresk, Dundas Hill, Lasswade, North Queensferry, Sea-field Tower, Kennoway, Kincardine, Dollar.

C. **Soldanella**, L. Sea-side Bindweed.

*Sandy places by the sea—June—August.*

Sands between Tynningham and Belhaven.

*N. O.—Cuscutaceæ—The Dodder Family.*

CUSCUTA. LINN.

C. **Epilinum**, Weihe. Flax Dodder.

*Parasitical on flax—August.*

Field near Musselburgh. Introduced.

C. **Epithymum**, Murr. Lesser Dodder.

*Parasitical on furze, heath, and thyme—July—October.*

Dalkeith, Newton.

C. **Trifolii**, Bab. Clover Dodder.

*Parasitical on clover—July—September.*

Braid Hills, Gleghornie near North Berwick. Introduced.

*N. O.—Boraginaceæ—The Borage Family.*

ASPERUGO. LINN.

A. **procumbens**, L. German Madwort.

*Waste and cultivated ground—June, July.*

Luffness, Dunbar Castle. Introduced.

CYNOGLOSSUM. LINN.

C. **officinale**, L. Common Hound's Tongue.

*Waste places—June, July.*

Rosyth Castle, Roslin Castle, Burntisland, Donibristle, Pettycur, Inchcolm, Gosford, Gullane, Aberdour, Queensferry, etc.

## BORAGO. LINN.

**B. officinalis**, L. Common Borage.

*On rubbish and waste ground—June, July.*

Salisbury Crags, Burntisland, Granton, Duddingston, Kinghorn, Gosford. Introduced.

## ANCHUSA. LINN.

**A. officinalis**, L. Common Alkanet.

*Waste ground—June, July.*

Near Edinburgh, Kilsyth. Probably introduced.

**A. sempervirens**, L. Evergreen Alkanet.

*Waste places and ruins—May, June.*

Borthwick Castle, Craigmillar Castle, Prestonkirk, Arniston, Dirleton, Tynehead, Mid-Calder, Burntisland, Aberdour, etc.

## LYCOPSIS. LINN.

**L. arvensis**, L. Small Bugloss.

*Fields and hedge banks—June, July.*

Corstorphine, Pettycur, Gullane, Lasswade, Queensferry, Currie, etc.

## SYMPHYTUM. LINN.

**S. officinale**, L. Common Comfrey.

*Damp places—May, June.*

Currie, Craigerook, Linlithgow, Kilconquhar, Dollar.

**S. tuberosum**, L. Tuberous Comfrey.

*Shady woods and river banks—June, July.*

Roslin, Currie, Colinton, Lasswade, Dalkeith, etc. Common.

[**S. aspernum**, Bieb. Rough Comfrey.

Has been found in Dysart woods, and other places near Edinburgh ; but it is an escape from gardens.]

## ECHIUM. LINN.

**E. vulgare**, L. Common Viper's Bugloss.

*Dry banks and old walls—June, July.*

Salisbury Crags, North Queensferry, Inchcolm, Aberdour, Kirkcaldy, Kinross, St. Davids, Penicuick, etc.

## PULMONARIA. LINN.

**P. officinalis**, L. Common Lungwort.

*Woods and thickets—May.*

Arniston, Banks of North Esk near Kevock Mill, Currie, Burntisland. Probably introduced.

Sometimes with white flowers.

## MERTENSIA. ROTH.

**M. maritima**, Don. Oyster Plant or Seaside Smooth Gromwell.

*Sea coast among sand and stones—May—August.*

Seafield Tower, Crail, Elie, near Dunglass.

## LITHOSPERMUM. LINN.

**L. officinale**, L. Common Gromwell.

*Dry waste places—June—August.*

Arniston, Roslin, Roman Camp near Dalkeith, Culross, Dirleton.

**L. arvense**, L. Corn Gromwell or Bastard Alkanet, or Salfern.

*Corn fields and waste ground—May, June.*

Slateford, Portobello, Caroline Park, Dalkeith, Queensferry, Drem, Burntisland, etc.

## MYOSOTIS. LINN.

**M. palustris**, With. Water Scorpion-Grass or Forget-me-not.

*Ditches and sides of rivers—June—August.*

Duddingston, Dunfermline, Roslin, Mid-Calder, Tynehead, Queensferry, Dollar, etc.

**β. strigulosa**. Duddingston Loch.

**M. repens**, Don. Creeping Water Scorpion-Grass.

*Boggy places—June—August.*

Dunfermline, Lomond Hills, Pentland Hills.

**M. cæspitosa**, Schultz. Tufted Water Scorpion-Grass.

*Watery places—June—August.*

Duddingston, Kincardine, Dunfermline, Loch Leven, Culross, North Queensferry, Yester, etc.

**M. sylvatica**, Ehrh. Upright Wood Scorpion-Grass.

*Dry shady places—May, June.*

Roslin, Arniston, Dalkeith, Dalhousie, Inveresk, Penicuick.

**M. arvensis**, Hoffm. Field Scorpion-Grass.

*Cultivated ground, hedge banks, etc.—June—August.*

Queen's Park, Queensferry, Burntisland, Currie, etc.  
Common.

**M. collina**, Hoffm. Early Field Scorpion-Grass.

*Dry banks—April, May.*

Queen's Park, Blackford Hill, Braid, Dalmeny, Queensferry, Burntisland, North Berwick, Dalmahoy, etc.

**M. versicolor**, Ehrh. Yellow and Blue Scorpion-Grass.

*Dry banks and meadows—May, June.*

Queen's Park, Dalmeny, Dalmahoy, Penicuick, North Queensferry, Drem, Burntisland, etc.

[**Omphalodes verna**, Mœnch. Blue Venus' Navel-wort.

Has been gathered near Roslin, and at other places near Edinburgh; but it is an escape from gardens.]

*N. O.—Solanaceæ*—The Potato Family.

## SOLANUM. LINN.

**S. Dulcamara**, L. Woody Nightshade or Bitter-Sweet.*Moist hedges and thickets—June—August.*

Aberdour, Aberlady, Musselburgh, Culross, Lomonds, Kinghorn, Roslin, Dalkeith, Burntisland, Prestonhall, etc.

**S. nigrum**, L. Black Nightshade.*Waste places—June—October.*

Near Portobello, St. Andrews. Introduced.

*N. O.—Atropaceæ*—The Deadly Nightshade Family.

## ATROPA. LINN.

**A. Belladonna**, L. Common Dwale or Deadly Nightshade.*Waste places—June—August.*

Between Aberdour and Donibristle, Charleston, Borthwick Castle, Limekilns, Inchcolm.

## HYOSCYAMUS. LINN.

**H. niger**, L. Common Henbane.*Waste places—June—August.*

Debris of Salisbury Crags, between Prestonpans and Coccenzie, Aberlady, Gullane, between Burntisland and Aberdour, Inchkeith, Inchcolm, Wemyss Castle.

*N. O.—Orobanchaceæ*—The Broom-rape Family.

## OROBANCHE. LINN.

**O. rubra**, Sm. Red Broom-rape.*Parasitical on Thyme—July, August.*

Seafield Tower between Kirkcaldy and Kinghorn, Cliff below St. Davids, near Burntisland.

## LATHRÆA. LINN.

**L. squamaria**, L. Greater Toothwort.

*Woods, parasitical upon the roots of Hazel, Cherry-laurel, etc.—April, May.*

Roslin, Arniston, Dalkeith, Dalhousie, banks of Esk near Kevock Mill.

*N. O.—Scrophulariaceæ—The Figwort Family.*

## VERBASCUM. LINN.

**V. nigrum**, L. Dark Mullein.

*Banks and waysides—June—October.*

Bogle Hill east of Cockenzie, between Seaton and Gosford, Banks of Esk, Borthwick Castle, Gullane. Introduced.

**V. Thapsus**, L. Great Mullein or High-taper.

*Waste ground—July, August.*

Blackford Hill, Dalmeny Park, Inchcolm, Wemyss, North Berwick, Kinross, Dysart, Stirling Castle.

## DIGITALIS. LINN.

**D. purpurea**, L. Purple Fox-glove or Folks-glove.

*Dry banks and woods—June—August.*

Roslin, Habbie's Howe, Blackford, Craigleith, Burntisland, North Queensferry, etc.

## ANTIRRHINUM. LINN.

**A. majus**, L. Great Snapdragon.

*Old walls—July—September.*

Duddingston, Portobello, Woodhall, Craigmillar Castle, Roslin, Burntisland. Introduced.

## LINARIA. MILL.

L. **Cymbalaria**, Mill. Ivy-leaved Toad-flax.

*Old walls—May—October.*

Trinity Road, Ravelston, Cleish, debris of Salisbury Crags, Portobello, Dirleton, Meadowbank, Seafield Tower, Burntisland, Dunfermline, Dysart.

L. **repens**, Ait. Creeping Pale-blue Toad-flax.

*Banks and rocks generally near the sea—July—September.*

Banks of Esk above Musselburgh, Salisbury Crags, wall at Duddingston, and at Trinity. Naturalised.

L. **vulgaris**, Mill. Yellow Toad-flax.

*Hedges and borders of fields—July—September.*

Banks of Canal, Water of Leith, Slateford, Railway banks near Dalkeith, Queen's Park, Blackford Hill, Loanhead, North Berwick, Drem, etc.

## SCROPHULARIA. LINN.

S. **nodosa**, L. Knotted Figwort.

*Woods and moist places—June—August.*

Queen's Park, Water of Leith, Burntisland, Inchcolm, Banks of Almond, Newbattle, etc.

S. **Ehrharti**, C. A. Stev. Ehrhart's Figwort.

*Wet places—July—September.*

Banks of Almond at Cramond Bridge, Pentland Hills.

S. **aquatica**, L. Water Figwort or Water Betony.

*Wet places—July, August.*

Side of stream near Burntisland, Gogar Burn, near Hopetoun House, Kincardine.

S. **vernalis**, L. Yellow Figwort.

*Waste places—April—June.*

Gosford, Cleish Castle, Hatton, Dalkeith, Woodhall, Aberdour, Newbattle, Kinghorn, North Berwick, Glenfarg.

## LIMOSELLA. LINN.

**L. aquatica**, L. Common Mudwort.

*Muddy places—July—September.*

Ponds at Gullane and Drem.

## MELAMPYRUM. LINN.

**M. pratense**, L. Yellow Cow-wheat.

*Woods and thickets—May—August.*

Roslin, Auchindinny, Tynehead, Dollar, etc.

**M. sylvaticum**, L. Small-flowered Yellow Cow-wheat.

*Woods—July.*

Near West Calder.

[**Mimulus luteus**, Willd. Yellow Mimulus.

Has been found naturalised in wet places at Arniston, Roslin, Pentlands, Raith, Crookston, Musselburgh, Water of Leith, North Queensferry, Tynehead.]

## PEDICULARIS. LINN.

**P. palustris**, L. Marsh Louse-wort or Red Rattle.

*Wet and marshy pastures—May—September.*

Duddingston, Gullane, Pentland Hills, Ravelrig, etc.

**P. sylvatica**, L. Pasture Louse-wort.

*Wet pastures and heaths—April—July.*

Ravelrig, Pentland Hills, Penicuick, Dunfermline, etc.

## RHINANTHUS. LINN.

**R. Crista-galli**, L. Common Yellow Rattle or Cock's Comb.

*Meadows and pastures, parasitical on roots of grasses—May—July.*

Duddingston, Blackford and Braid Hills, Roslin, Lasswade, North Queensferry, etc. Common.

**R. major**, Ehrh. Large Bushy Yellow Rattle.

*Waste places and cultivated ground—July, August.*

Leven Links.

EUPHRASIA. LINN.

**E. officinalis**, L. Common Eye-bright.

*Pastures, woods and heaths—June—August.*

Queen's Park, Pentland Hills, Braid Hills, Gullane, Dalma-hoy, Queensferry, etc. Common.

**E. Odontites**, L. Red Eye-bright.

*Corn fields and waste places—July, August.*

Slateford, Banks of Canal, Duddingston, Aberlady, Kil-conquhar, North Berwick, etc. Common.

VERONICA. LINN.

**V. scutellata**, L. Marsh Speedwell.

*Wet places and sides of ditches—July, August.*

Duddingston Loch, Braid Hills, North Queensferry, Currie, Pentland Hills, Lomond Hills, etc.

**V. Anagallis**, L. Water Speedwell.

*Ditches and watery places—July, August.*

Duddingston, Longniddry, Luffness, Gullane, Burntisland, Kilconquhar, Strathmiglo.

**V. Beccabunga**, L. Brooklime.

*Ditches and streams—May—September.*

Duddingston, Ravelrig, North Queensferry, Dalkeith, Burntisland, etc.

**B. limosa**. Smeaton, near Dalkeith.

**V. Chamædrys**, L. Germaner Speedwell.

*Hedge banks, woods and pastures—May, June.*

Queen's Park, etc. Very common.

**V. montana**, L. Mountain Speedwell.

*Moist woods—May, June.*

Arniston, Dalkeith, Prestonhall, Dalhousie, Roslin, Penicuick, etc.

**V. officinalis**, L. Common Speedwell.

*Dry pastures and woods—May—July.*

Queen's Park, Arniston, Roslin, North Queensferry, etc.  
Common.

[**V. fruticulosa**, L. Flesh-coloured Speedwell.

*Woods—July.*

Melville Woods. Introduced.]

**V. serpyllifolia**, L. Thyme-leaved Speedwell.

*Pastures and waysides—May, June.*

Queen's Park, etc. Very common.

**V. arvensis**, L. Wall Speedwell.

*Dry fields and walls—April—July.*

Queen's Park, Craigmor, near Merchiston Castle, Dundas Hill, Drem, Queensferry, etc.

**V. agrestis**, L. Green Procumbent Field Speedwell.

*Fields and waste places—April—September.*

Currie, Craigmillar, Queen's Park, Burntisland, Inverkeithing, etc.

**V. polita**, Fries. Gray Field Speedwell.

*Fields and waste places—April—September.*

Portobello, Inverkeithing, Balmuto, Longniddry, Burntisland, Queensferry.

**V. Buxbaumii**, Ten. Buxbaum's Speedwell.

*Fields and cultivated places—April—September.*

Near Granton, Burntisland, Dunfermline, Longniddry, St. Davids, Rosyth Castle, Dollar. Doubtful native.

**V. hederifolia**, L. Ivy-leaved Speedwell.

*Fields and banks—April—August.*

Liberton, Blackford Hill, Slateford, Dirleton, Penicuick, Burntisland, Queensferry, etc. Common.

*N. O.—Labiatae*—The Dead Nettle Family.

## MENTHA. LINN.

**M. rotundifolia**, L. Round-leaved Mint.*Moist waste places—August, September.*Auchindinny, Tynehead, Curriehill, banks of Esk above  
Musselburgh. Probably introduced.**M. sylvestris**, L. Horse Mint.*Waste ground in damp places—August, September.*

Gogar Burn, Tynehead.

 **$\beta.$  velutina**. Tynehead, Prestonpans.**M. viridis**, L. Spear Mint.*Marshy places—August.*Cairnhill, Pentlands, Musselburgh, Crookston, Mid-Calder,  
Tynehead, Glenfarg, Granton. Introduced.**M. piperita**, Sm. Pepper Mint.*Wet places—August, September.*

Arniston, North Queensferry, near Crookston.

**M. aquatica**, L. Water Capitate Mint.*Marshes and river sides—July, August.*Duddingston Loch, Pentland Hills, Ravelrig, Mid-Calder,  
Granton, etc. **$\beta.$  crispa**. Variety with crisped leaves. Near Alloa.**M. pratensis**, Sole. Narrow-leaved Mint.*Wet places—August, September.*

Lasswade, Hawthornden, Colinton.

**M. sativa**, L. Whorled Hairy Mint.*Wet places—July, August.*

North Queensferry, Arniston, Roslin, Dollar, etc.

 **$\beta.$  rubra**. Banks of Esk above Musselburgh.

**M. arvensis**, L. Corn Mint.*Corn fields—July—September.*Colinton, Craigerrook, Gorebridge, Dalhousie, Luffness,  
North Berwick, Dollar, etc.**M. Pulegium**, L. Penny-royal.*Wet places—August, September.*

Sides of springs on the Pentland Hills. Doubtful native.

## SALVIA. LINN.

**S. verbenaca**, L. Wild English Clary or Sage.*Dry gravelly banks—May, June.*Salisbury Crags, Burntisland, Kinghorn and Pettycur,  
Kirkcaldy.

## ORIGANUM. LINN.

**O. vulgare**, L. Common Marjoram.*Dry hilly and waste places—July, August.*Burntisland, Aberdour, Raith Woods, Arniston, Roslin,  
Water of Leith, Linton, Strathmiglo, etc.

## THYMUS. LINN.

**T. Serpyllum**, L. Wild Thyme.*Hills and dry pastures—June, August.*Queen's Park, Braid Hills, Blackford, Pentlands, Dalma-  
hoy, Newbattle, Burntisland, etc.**β. Chamædrys**. Gullane and North Berwick.

## CALAMINTHA. MÆNCH.

**C. Acinos**, Clairv. Common Basil Thyme.*Dry gravelly places and cultivated fields—July, August.*Debris of Salisbury Crags, Samson's Ribs, North Queens-  
ferry, Aberlady, Dirleton.

**C. Clinopodium**, Benth. Common Wild Basil.

*Hilly places—July—September.*

Burntisland, Blackford, Slateford, Roslin, Woodecockdale, Raith, etc.

SCUTELLARIA. LINN.

**S. galericulata**, L. Common Skull-cap.

*Banks of rivers—July, August.*

Foot of Dundas Hill, Leadburn.

PRUNELLA. LINN.

**P. vulgaris**, L. Common Self-heal.

*Moist and barren pastures—July, August.*

Queen's Park, etc. Very common.

NEPETA. LINN.

**N. Cataria**, L. Cat Mint.

*Woods and waste places—July—September.*

Woods near Culross. Introduced.

**N. Glechoma**, Benth. Ground Ivy.

*Hedges and waste places—March—May.*

Queen's Park, Colinton, Roslin, etc. Very common.

LAMIUM. LINN.

**L. amplexicaule**, L. Henbit Dead Nettle.

*Sandy fields and waste places—May—August.*

Duddingston, Dalkeith, Musselburgh, Roslin, Queensferry, Gullane, etc.

**L. intermedium**, Fries. Intermediate Dead Nettle.

*Waste places—June—September.*

Duddingston, Hunter's Tryst, Luffness, Balgreen, North Queensferry, etc.

**L. incisum**, Willd. Cut-leaved Dead-nettle.*Cultivated and waste ground—March—June.*

Duddingston, Roslin, Queensferry, between Merchiston Castle and Colinton, Penicuick, Burntisland, etc.

**L. purpureum**, L. Red Dead-nettle.*Waste and cultivated ground—May—August.*

Queen's Park, Queensferry, Slateford, etc. Common.

**L. album**, L. White Dead-nettle.*Borders of fields and waste places—May—September.*

Queen's Park, Musselburgh, Colinton, Penicuick, etc. Common.

**L. maculatum**, L. Spotted Dead-nettle.*Waste ground—June—August.*

Roslin, Dalkeith, Musselburgh, Dunfermline, Charleston, Kilconquhar, North Queensferry, Granton, Dollar.

**L. Galeobdolon**, Crantz. Yellow Weasel-snout or Archangel.*Woods and shady places—April—June.*

Lomond Hills, Dunglass. Introduced.

## LEONURUS. LINN.

**L. Cardiaca**, L. Common Motherwort.*Waste places and hedges—July—September.*

Water of Leith near Stockbridge, near Fisherrow, Colinton Woods, North Queensferry. Introduced.

## GALEOPSIS. LINN.

**G. Ladunum**, L. Red Hemp-nettle, Ironwort.*Gravelly and sandy places—August, September.*

Roman Camp above Newbattle, Oxenford Castle, Cross-gate Toll, Charleston, Dunfermline.

**G. Tetrahit**, L. Common Hemp-nettle.*Corn fields and cultivated ground—July—September.*

Duddingston, etc. Common.

**G. versicolor**, Curt. Large-flowered Hemp-nettle.*Cultivated ground—July, August.*

Duddingston, Lasswade, Lochend, Braid Hills, Blackford, Slateford, Coltbridge, Crookston, Dysart, etc.

## STACHYS. LINN.

**S. Betonica**, Benth. Wood Betony.*Woods and thickets—June—August.*

Colinton, Auchindinny, Dundas Hill, Strathmiglo.

**S. sylvatica**, L. Hedge Woundwort.*Woods and shady places—July, August.*

Queen's Park, Blackford, Water of Leith, Roslin, Burnt-island, etc. Common.

**S. palustris**, L. Marsh Woundwort, Clown's All-heal.*Watery moist places—July, August.*

Duddingston, Roslin, etc. Common.

**S. ambigua**. Lasswade, Habbie's Howe, Pentlands, Auchindinny, North Berwick.**S. arvensis**, L. Corn Woundwort, Petty All-heal.*Dry corn fields—August, September.*

Pentlands, North Queensferry, Dysart, Dollar.

## BALLOTA. LINN.

**B. foetida**, Lam. Stinking Horehound.*Waste places—July, August.*

Queen's Park, Preston Castle, Burntisland, Aberlady, Dysart, Charleston.

## MARRUBIUM. LINN.

**M. vulgare**, L. White Horehound.

*Waste places—August, September.*

Burntisland, Fisherrow, Gullane, Longniddry, Inchkeith, Inchcolm, North Queensferry. Introduced.

## TEUCRIUM. LINN.

**T. Scorodonia**, L. Wood Germander or Sage.

*Woods and dry stony places—July, August.*

Queen's Park, Roslin, Pentlands, Burntisland, etc.

## AJUGA. LINN.

**A. reptans**, L. Common Bugle.

*Moist pastures and woods—May, June.*

Roslin, Auchindinny, Aberdour, Arniston, etc.

Flowers occasionally white.

*N. O.—Verbenaceæ*—The Vervain Family.

## VERBENA. LINN.

**V. officinalis**, L. Common Vervain.

*Waste ground—July, August.*

Inverkeithing, St. Davids. Introduced.

*N. O.—Lentibulariaceæ*—The Butterwort Family.

## PINGUICULA. LINN.

**P. vulgaris**, L. Common Butterwort.

*Boggy places—May—July.*

Ravelrig, Pentland Hills, Gullane, Dunfermline, Lomond Hills, etc.

## UTRICULARIA. LINN.

**U. vulgaris**, L. Greater Bladderwort.

*Ditches and deep pools—June, July.*

Gullane, Ravelrig, Loch Leven.

**U. minor**, L. Lesser Bladderwort.

*Ditches and pools—June—September.*

Ravelrig, Pentland Hills, Lomond Hills, Logan Hill.

*N. O.—Primulaceæ*—The Primrose Family.

## PRIMULA. LINN.

**P. vulgaris**, Huds. Common Primrose.

*Woods, banks, and pastures—April, May.*

Colinton, Roslin, etc. Common.

**P. caulescens**. Colinton, North Queensferry, Auchtertool, Aberdour, Dalkeith, etc.

**P. veris**, L. Common Cowslip or Paigle.

*Meadows and pastures—April, May.*

Roslin, Arniston, Queensferry, Caroline Park, Prestonpans, Donibristle, Burntisland, Kinghorn, Dalmeny, etc.

**P. farinosa**, L. Bird's-Eye Primrose.

*Hilly pastures—June, July.*

Bridgehouse near West Linton, 18 miles from Edinburgh.

## LYSIMACHIA. LINN.

**L. thrysiflora**, L. Tufted Loose-strife.

*Marshy places—July.*

Canal near Falkirk.

**L. vulgaris**, L. Great Yellow Loose-strife.*Wet shady places and sides of rivers—July, August.*

Near Dunfermline, Carlowrie Woods, Linlithgow, Blackhall, Lochgelly, Donibristle, Callander. Doubtful native.

[**L. ciliata**, L. Fringed Loose-strife.

Is occasionally found as an escape from gardens.]

**L. Nummularia**, L. Creeping Loose-strife, Moneywort, or Herb-twopence.*Shady places—June, July.*

Craigmillar, Caroline Park, Roslin, Balerno, Dalkeith, Gogar. Introduced.

**L. nemorum**, L. Yellow Pimpernel or Wood Loose-strife.*Woods and shady places—May—August.*

Currie, Auchindinny, Roslin, Arniston, Dalkeith, etc. Common.

## ANAGALLIS. LINN.

**A. arvensis**. L. Scarlet Pimpernel or Poor Man's Weather-glass.*Corn fields and dry waste places—June, July.*

Burntisland, Queensferry, Luffness, Carlowrie, Caroline Park, Braid, Tynehead, Strathmiglo, Dollar.

**β. cærulea**. Between Drem and Gullane.**A. tenella**, L. Bog Pimpernel, Purple Moneywort.*Wet boggy places—July, August.*

Banks of Esk above Inveresk, Gullane, Queensferry, Hunter's Bog.

## CENTUNCULUS. LINN.

**C. minimus**, L. Bastard Pimpernel or Small Chaffweed.*Damp shady places—June, July.*

Shores of Loch Leven.

## TRIENTALIS. LINN.

**T. europaea**, L. European Chickweed Winter-green.

*Woods and heaths—June.*

Dalmahoy, West Lomond Hill, Tulliallan, Lethens Moor, Fir wood north of Kennoway, Town wood Dunfermline, Dollar.

## GLAUX. LINN.

**G. maritima**, L. Sea Milkwort or Black Saltwort.

*Sea-shore, wet places—June, July.*

Granton, Culross, Queensferry, Pettycur, Cramond, Prestonpans, Gullane, etc.

## SAMOLUS. LINN.

**S. Valerandi**, L. Brookweed or Water Pimpernel.

*Marshy places—June—September.*

Gullane Links, Limekilns, Queensferry, Links near St. Germains.

*N. O.—Plumbaginaceæ—The Sea-pink Family.*

## STATICE. LINN.

**S. Limonium**, L. Spreading Spiked Sea Lavender.

*Muddy salt marshes—July—September.*

Shore at Elie. J. W. Brown.

## ARMERIA. WILLD.

**A. maritima**, Willd. Thrift or Sea-pink, or Sea-Gilliflower.

*Rocks and muddy places by the sea—April—September.*

Granton, Burntisland, North Queensferry, Aberlady, Gullane, Inchkeith, etc.

*N. O.—Plantaginaceæ*—The Ribwort Family.

## PLANTAGO. LINN.

**P. Coronopus**, L. Buck's-horn Plantain.*Gravelly places near the sea—June, July.*

Caroline Park, North Queensferry, Burntisland, etc.

**P. maritima**, L. Seaside Plantain.*Pastures and rocks by the sea—June—September.*

Caroline Park, Burntisland, Inverkeithing, etc.

**P. lanceolata**, L. Ribwort Plantain, Ribgrass.*Meadows and pastures—June, July.*

Queen's Park, Liberton, Braid Hills, etc. Very common.

**P. media**, L. Hoary Plantain.*Meadows and pastures—June—September.*

Roman Camp, Preston Hall, Kirkealdy, Inveresk, Falkland.

**P. major**, L. Greater Plantain.*Pastures and roadsides—June, July.*

Queen's Park, Dalkeith, Currie, etc. Very common.

## LITTORELLA. LINN.

**L. lacustris**, L. Plantain Shore-weed.*In watery sandy places—June.*

Kinghorn Loch, Braid marshes, Pentlands near Currie, Lomond Hills, Leadburn, Gullane Links, Dunearn Hill.

## SUB-CLASS IV.—MONOCHLAMYDEÆ.

## SECT. I.—ANGIOSPERMÆ.

*N. O.*—**Chenopodiaceæ**—The Goose-foot Family.

## SUÆDA. FORSK.

**S. maritima**, Dum. Annual Sea-Blite.

*Sea-shore—July—September.*

Morrison's Haven, Inverkeithing, Aberlady, Gullane, Dunbar, North Queensferry, Tynningham.

## SALSOLA. LINN.

**S. Kali**, L. Prickly Saltwort.

*Sandy sea-shores—July.*

Caroline Park, Musselburgh, Burntisland, Inchcolm, Queensferry, North Berwick, Dysart.

## CHENOPODIUM. LINN.

**C. oïdium**, Curt. Stinking Goose-foot.

*Waste places near the sea—August, September.*

Musselburgh, Fisherrow, Prestonpans, Preston Castle, Inverkeithing.

**C. urbicium**, L. Upright Goose-foot.

*Waste places—August.*

Musselburgh and Fisherrow.

**C. album**, L. White Goose-foot, Fat-Hen.

*Waste places—July, August.*

Portobello, Musselburgh, North Queensferry, Kilconquhar, North Berwick, Falkland, Drem, Linton, etc.

**C. hybridum**, L. Maple-leaved Goose-foot.*Waste places and cultivated fields—August.*Occasionally found in cultivated fields near Edinburgh.  
Introduced.**C. rubrum**, L. Red Goose-foot.*Waste places and salt marshes—August, September.*

Charleston, St. Davids.

**C. glaucum**, L. Oak-leaved Goose-foot.*Waste sandy places—August, September.*

Charleston, St. Davids on ballast heaps. Introduced.

**C. Bonus-Henricus**, L. Mercury Goose-foot, Good King Henry, or All-good.*Roadsides and waste places—May—August.*

Braid Hills, Queen's Park, Colinton, Slateford, near Merchiston, Queensferry, Craigmillar, Kirkcaldy, etc.

## BETA. LINN.

**B. maritima**, L. Sea Beet.*Sea shores—July—September.*

Donibristle, Bass Rock, North Berwick, Gosford, Kirkcaldy, Cramond, Queensferry.

## SALICORNIA. LINN.

**S. herbacea**, L. Jointed Glasswort.*Salt Marshes—August, September.*

Morrison's Haven, Prestonpans, Inverkeithing, Gullane, Aberlady, Donibristle, Charleston, Tynningham.

## ATRIPLEX. LINN.

**A. littoralis**, L. Grass-leaved Sea Orache.*Muddy salt marshes—July—September.*

Donibristle, Inchkeith, St. Davids, Rosyth Castle, Gullane.

**A. angustifolia**, Sm. Spreading Narrow-leaved Orache.

*Cultivated ground and waste places—July—October.*

North Queensferry, St. Davids, Kilconquhar.

**A. erecta**, Huds. Upright Orache.

*Cultivated and waste places—July—October.*

Granton, Liberton, Prestonpans, Musselburgh.

**A. deltoidea**, Bab. Triangular-leaved Orache.

*Cultivated and waste places—June—October.*

Fishwife's Causeway, Portobello.

**A. hastata**, L. Spreading Halbert-leaved Orache.

*Cultivated and waste ground, and in salt marshes—June—October.*

Figget Whins, Queensferry, Granton, Lochend, Roslin, Salisbury Crags, Duddingston, North Berwick, Yester, Kilconquhar.

**A. Babingtonii**, Woods. Spreading-fruited Orache.

*Sea coast—July—September.*

Caroline Park, Granton, Bass Rock, North Berwick, Queensferry, etc.

**A. arenaria**, Woods. Frosted Sea Orache.

*Sandy sea shores—July—September.*

Caroline Park, Burntisland, Seafield, Musselburgh, Inchcolm.

*N. O.—Scleranthaceæ*—The Scleranthus or Knavel Family.

#### SCLERANTHUS. LINN.

**S. annuus**, L. Annual Knavel.

*Sandy and gravelly places—June—August.*

Pentlands, North Queensferry, Lasswade, Corstorphine, Kirkliston, Dysart, Lomond Hills, etc.

*N. O.—Polygonaceæ—The Buckwheat Family.*

## RUMEX. LINN.

**R. maritimus**, L. Golden Dock.*Marshes near the sea—July, August.*

Burntisland, between Kinghorn and Pettycur. Has not been found of late.

**R. conglomeratus**, Murr. Sharp Dock.*Wet places—June—August.*

Arniston, Cockenzie, Colinton, Duddingston, Lochend, etc.

**R. sanguineus**, L. Bloody Veined Dock.*Shady places and roadsides—July.*

Dalkeith, Roman Camp, Lochend, Abercorn, Culross, Archerfield, Raith.

**R. viridis**. Green Veined Dock. Culross, Tynningham, Tynehead, Dysart, Yester, Dalkeith.**R. obtusifolius**, L. Broad-leaved Dock.*Roadsides and waste places—July—September.*

Currie, Queen's Park, Queensferry etc. Common.

**R. aquaticus**, L. Grainless Water Dock.*Moist places—July, August.*

Cairn's Inn, 14 miles west from Edinburgh; Colzium House, Penicuick, Gala Water near Crookston, Kincardine, Dysart.

**R. crispus**, L. Curled Dock.*Roadsides, pastures, etc.—June—August.*

Queen's Park, Bass Rock, Queensferry, etc. Common.

**R. alpinus**, L. Alpine Dock or Monk's Rhubarb.*Roadsides and pastures—July.*

Penicuick Moor, Muckart Bridge, Ochils, Dollar, Knock Hill and Loch Fittie, Dunfermline, Glenfarg.

**R. acetosa**, L. Common Sorrel.

*Meadows and pastures—May—July.*

Queen's Park, Caroline Park, Pentland Hills, etc. Common.

**R. Acetosella**, L. Sheep's Sorrel.

*Dry pastures—May—July.*

Queen's Park, Lasswade, Dalmahoy, etc. Common.

[**R. scutatus**, L. French or Garden Sorrel.

Is found at Craigmillar, Burntisland. Introduced; and not native.]

### POLYGONUM. LINN.

**P. Bistorta**, L. Bistort or Snakeweed.

*Moist meadows—June—September.*

Duddingston, Corstorphine, Dalkeith, Hawthornden, Roslin, Raith, Craigcrook, Burntisland.

**P. viviparum**, L. Viviparous Alpine Bistort.

*Hilly pastures—June, July.*

North Queensferry, Cardenden, West Lomond Hill, Knock Hill, Ben Clach and Glen Vale, Ochils.

**P. amphibium**, L. Amphibious Buckwheat.

*Sides of ponds, lakes, and ditches—July, August.*

Duddingston, Lochend, Braid, Muttonhole, Corstorphine, etc.

**P. terrestre**. In dry places and by roadsides.

**P. lapathifolium**, L. Pale-flowered Persicaria.

*Fields and waste places—July, August.*

Dirleton, Aberlady, Dollar, etc.

**P. Persicaria**, L. Spotted Persicaria.

*Moist waste places—July—October.*

Lochend, Pentland Hills, Water of Leith, Queensferry, Dunfermline, etc.

**P. Hydropiper**, L. Water Pepper or Biting Persicaria.

*Sides of lakes and ditches—August, September.*

Musselburgh, Currie, Slateford, Burntisland, Kincardine, Linlithgow Loch, Dollar, etc.

**P. aviculare**, L. Common Knot-grass.

*Waste places and roadsides—May—September.*

Queen's Park, Colinton, etc. Common.

**β. littoralis**. Granton, Inverkeithing, Gosford Links.

**P. Convolvulus**, L. Climbing Buckwheat, or Black Bindweed.

*Corn fields and waste places—July—September.*

Caroline Park, Burntisland, Blackford, Woodcockdale, Dysart, etc.

[**Fagopyrum esculentum**, Mœnch. Common Buckwheat.

Is found at Roslin, Hawthornden, Arniston, Queensferry, Inverkeithing, Kirkcaldy. Introduced ; not native.]

*N. O.—Elæagnaceæ—The Oleaster Family.*

HIPPOPHAE. LINN.

**H. rhamnoides**, L. Sea Buckthorn.

*Sea-coast—May.*

Gosford, Aberlady, Aberdour, Port Seaton, Prestonhall, Tynningham, Queensferry, North Berwick.

*N. O.—Thymelæaceæ—The Mezereon Family.*

DAPHNE. LINN.

**D. Mezereum**, L. Common Mezereon.

*Woods—February, March.*

Dalhousie, Roslin. Introduced.

**D. Laureola**, L. Spurge Laurel, Lowry.

*Woods—February—April.*

Colinton, Roslin, Arniston, Dalkeith, Dysart. Introduced.

*N. O.—Aristolochiaceæ*—The Birthwort Family.

ASARUM. LINN.

**A. europæum**, L. Asarabacea.*Woods—May.*Colinton, West Binny near Linlithgow, Burntisland.  
Introduced.*N. O.—Empetraceæ*—The Crowberry Family.

EMPETRUM. LINN.

**E. nigrum**, L. Black Crowberry or Crakeberry.*Heaths and hilly places—May.*Ravelrig, Pentland Hills, near Dunfermline, Habbie's  
Howe, Lomond Hills, Tynehead, Dollar.*N. O.—Euphorbiaceæ*—The Spurge Family.

BUXUS. LINN.

**B. sempervirens**, L. Common Box.*Woods—April—June.*

Dalkeith, Arniston, Balcarras, Colinton. Introduced.

EUPHORBIA. LINN.

**E. Helioscopia**, L. Sun Spurge.*Waste and cultivated ground—June—October.*

Gullane, Queensferry, fields near Edinburgh. Common.

**E. Cyparissias**, L. Cypress Spurge.*Woods—June, July.*

Colinton, Dunfermline. Introduced.

**E. Esula**, L. Leafy-branched Spurge.*Woods—June, July.*

Duddingston, Aberdour, Gladsmuir Kirk, Abercorn, Haddington.

**E. Peplus**, L. Petty Spurge.*Cultivated and waste ground—July—November.*

Musselburgh, Fisherrow, Newhaven, corn fields near Edinburgh. Common.

**E. exigua**, L. Dwarf Spurge.*Corn fields—July—October.*

Queensferry, Burntisland, Charleston, Musselburgh, Dysart, Yester.

**E. Lathyris**, L. Caper Spurge.*Woody places and cultivated ground—June, July.*

Inverkeithing, near Dunfermline. Introduced.

[**E. purpurata**, Thuill. Purple Spurge.

Is found near Tullibody, Ochils. Introduced ; and not native.]

## MERCURIALIS. LINN.

**M. perennis**, L. Perennial or Dog's Mercury.*Woods and shady places—March—May.*

Queen's Park, Colinton, Braid, etc. Very common.

**M. annua**, L. Annual Mercury.*Waste places near towns—July—November.*

Near Burntisland, Tranent.

*N. O.—Callitrichaceæ—The Starwort Family.*

## CALLITRICHE. LINN.

**C. verna**, L. Vernal Water Starwort.*Ditches, pools, and slow streams—April—August.*

Duddingston, Lochend, Pentlands, Linlithgow, Tynehead, Midcalder, etc.

**C. platycarpa**, Kutz. Broad-fruited Water Starwort.*Wet muddy places—May—September.*

North Queensferry, Tynehead, Penicuick, Drem, Kincardine, North Berwick.

**C. autumnalis**, L. Autumnal Water Starwort.*Ditches and lakes—June—October.*

Near Midcalder, Kinghorn Loch.

*N. O.—Ceratophyllaceæ*—The Hornwort Family.

## CERATOPHYLLUM. LINN.

**C. demersum**, L. Common Hornwort.*Streams, ponds, and ditches—June, July.*Ditch round Duddingston Loch, Canal, Dunsapie Loch,  
etc.**C. submersum**, L. Unarmed Hornwort.*Lochs and ditches—June, July.*

Linlithgow Loch.

*N. O.—Urticaceæ*—The Nettle Family.

## PARIETARIA. LINN.

**P. officinalis**, L. Common Wall Pellitory.*Old walls and waste places—June—September.*Water of Leith near gas-works, Burntisland, Inverkeithing,  
Craigmillar, Inchcolm, etc.

There are erect and spreading varieties of this plant.

## URTICA. LINN.

**U. urens**, L. Small Nettle.*Waste places and cultivated ground—June—September.*Queen's Park, Musselburgh, Burntisland, Midcalder,  
Queensferry, Drem, etc.**U. dioica**, L. Great Nettle.*Waste places and hedge banks—June—September.*

Queen's Park, Colinton, etc. Common.

## HUMULUS. LINN.

**H. Lupulus**, L. Common Hop.*Hedges and thickets—July, August.*

Duddingston, Water of Leith at Canonmills Bridge, Lasswade, North Queensferry, banks of Esk near Inveresk, Clunie, Dalkeith, Tynehead. Introduced.

*N. O.—Ulmaceæ—The Elm Family.*

## ULMUS. LINN.

**U. suberosa**, Ehrh. Common Elm.*Woods and hedges—March—May.*

The Meadows, Colinton, Dalkeith, Penicuick.

**U. montana**, With. Wych Elm.*Woods and hedges—March, April.*

Duddingston, Ravelston, Dalkeith, Penicuick, Midcalder, Craileith, etc.

*N. O.—Myricaceæ—The Gale Family.*

## MYRICA. LINN.

**M. Gale**, L. Sweet Gale, Bog or Dutch Myrtle.*Bogs and moory places—May—July.*

Ravelrig, Pentlands, Ochils, Lomonds, near Dunfermline, near Inverkeithing.

*N. O.—Salicaceæ—The Willow Family.*

## SALIX. LINN.

**S. pentandra**, L. Sweet Bay-leaved Willow.*Banks of rivers and wet places—May, June.*

Water of Leith near Ravelrig, Roslin, banks of Esk, Lasswade, Kirkliston, Carlowrie, Pentland Hills, Midcalder, Tynehead.

**S. fragilis, L.** Crack-Willow

*Marshy places—April, May.*

Colinton, Roslin, Ravelrig, Penicuick, Drem, Midcalder, Inveresk.

**S. Russelliana, Sm.** Bedford Willow.

*Wet places—April, May.*

Water of Leith, Colinton, Roslin, Musselburgh, Lasswade, Coltbridge, Duddingston, Corstorphine, Arniston, Dalkeith, Kinross, Linlithgow.

**S. alba, L.** Common White Willow.

*River sides and moist woods—May.*

Craighouse, Water of Leith, Roslin, Duddingston, Cramond.

**S. triandra, L.** Blunt-stipuled Triandrous Willow.

*Banks of rivers, wet places, and osier ground—April-June.*

Craigcrook, Coltbridge, Saughton Hall, Granton.

**S. purpurea, L.** Purple Willow.

*Marshes and banks of rivers—March-May.*

Inveresk, Water of Leith.

**S. Lambertiana, Sm.** Boyton Willow.

*River banks and marshy places—March-May.*

Near Kirkliston, Coltbridge, Inveresk.

**S. Helix, L.** Rose Willow.

*Marshes and banks of rivers—March, April.*

Duddingston, Corstorphine, Inveresk, Dalkeith, Kirknewton, Penicuick, Ravelrig.

**S. viminalis, L.** Common Osier.

*Wet places and osier ground—April, May.*

Dalmeny, Duddingston, Ravelrig, Roslin, Pentland Hills, Dalkeith, Inveresk.

**S. Smithiana**, Willd. Silky-leaved Osier.

*Meadows and wet places—April, May.*

Ravelrig, Dalkeith, Banks of Esk, North Queensferry, Penicuick, Mid-Calder, Linlithgow, Inveresk.

**S. acuminata**, Sm. Long-leaved Sallow.

*Moist woods and hedges—April, May.*

Banks of Esk near Musselburgh, Colinton woods.

**S. cinerea**, L. Gray Sallow.

*Wet places and moist woods—March, April.*

Colinton, Dalkeith, Roslin, Dalmahoy, Dalhousie, North Queensferry, Kirknewton.

**S. aquatica**. Roman Camp, Dalkeith, Duddingston, Falkland, Mid-Calder.

**S. aurita**, L. Round-eared Sallow.

*Damp woods—April, May.*

Dalkeith, Newbattle, Mid-Calder, Penicuick, Falkland, etc.

**S. Caprea**, L. Great Round-leaved Sallow.

*Woods, hedges, and pastures—April, May.*

Water of Leith, Lasswade, Newbattle, Penicuick, Mid-Calder, etc.

**S. phylicifolia**, L. Tea-leaved Willow.

*Banks of streams—April, May.*

Inveresk, Pentlands, etc.

**S. repens**, L. Dwarf Creeping Silky Willow.

*Heaths and bogs—April, May.*

Ravelrig, Pentland Hills, Drumshorlan Moor, Dreghorn, Newbattle, Lomond Hills, Dunfermline, etc.

**S. herbacea**, L. Least Willow.

*Alpine situations—June.*

Summit of Ben Clach, Ochils.

## POPULUS. LINN.

**P. alba**, L. Great White Poplar or Abele.

*Damp woods—March, April.*

Dalmeny, Cramond, Habbie's Howe, Juniper Green, Kin-cardine, Kilconquhar, Dalkeith, Dysart. Probably introduced.

**P. tremula**, L. Trembling Poplar or Aspen.

*Woods—March, April.*

Roslin, Habbie's Howe, Dunfermline.

**P. nigra**, L. Black Poplar.

*River banks and damp places—March, April.*

Water of Leith, Colinton, Roslin, Ratho. Introduced.

*N. O.—Betulaceæ—The Birch Family.*

## BETULA. LINN.

**B. alba**, L. White Birch.

*Woods and heathy places—April, May.*

Roslin, Auchindinny, Colinton, Ravelrig, Corstorphine, Kirknewton, etc.

**B. glutinosa**, Fries. Common Birch.

*Woods and hilly places—April, May.*

Colinton, Roslin, Ravelrig, Auchindinny, etc.

## ALNUS. TOURN.

**A. glutinosa**, Gært. Common Alder.

*Wet places and river banks—March, April.*

Roslin, Arniston, Cramond, Dalkeith, Tynningham, etc. Common.

*N. O.—Corylaceæ—The Hazel Family.*

## FAGUS. LINN.

**F. sylvatica**, L. Common Beech.*Woods—March, April.*Roslin, Auchindinny, Colinton, Duddingston, Dalmahoy,  
Aberdour, Dalkeith, Hopetoun, etc.

## CASTANEA. TOURN.

**C. vulgaris**, Lam. Sweet or Spanish Chestnut.*Woods—May—July.*

Colinton, Aberdour, Hopetoun, Kilconquhar, etc. Introduced.

## QUERCUS. LINN.

**Q. Robur**, L. Common British Oak.*Woods and hedges—April, May.*Corstorphine, Colinton, Roslin, Auchindinny, Arniston,  
Carlowrie, Hopetoun, etc.**β. sessiliflora**. Roslin, Auchindinny, Yester.

## CORYLUS. LINN.

**C. Avellana**, L. Common Hazel Nut.*Woody places and hedges—February—April.*Roslin, Auchindinny, Colinton, Arniston, Dalkeith, Penicuick,  
Duddingston, etc. Common.

## CARPINUS. LINN.

**C. Betulus**, L. Common Hornbeam.*Damp clayey woods and hedges—May.*

Roslin, Habbie's Howe, Colinton, Dalkeith, Kirknewton.

## SECT. II.—GYMNOSPERMÆ OR GYMNOGENÆ.

*N. O.*—**Coniferæ**—The Pine Family.

JUNIPERUS. LINN.

**J. communis**, L. Common Juniper.

*Hilly heathy places—May.*

Pentland Hills, Auchindinny, Queen's Park, Kirknewton, Tynehead, Dollar, etc.

PINUS. LINN.

**P. sylvestris**, L. Scotch Fir.

*Woods—May, June.*

Blackford, Craiglockhart, Roslin, Dreghorn, Dalmahoy, Linlithgow, Strathmiglo, Queensferry, etc.

*N. O.*—**Taxaceæ**—The Yew Family.

TAXUS. LINN.

**T. baccata**, L. Common Yew.

*Woods—March, April.*

Roslin, Dalkeith, Gorebridge, Mid-Calder, Corstorphine. Probably introduced.

## CLASS II.—MONOCOTYLEDONES OR ENDOGENÆ.

### SUB-CLASS I.—DICTYOGENÆ.

*N. O.*—Trilliaceæ—The Trillium Family.

PARIS. LINN.

*P. quadrifolia*, L. Common Herb-Paris, or True-love.

*Moist shady woods—May, June.*

Water of Leith above Currie, Newbattle, Arniston, Black Devon, Dunfermline, Blair Hill woods, Dollar.

*N. O.*—Hydrocharidaceæ—The Frog-bit Family.

STRATIOTES. LINN.

*S. aloides*, L. Water Soldier.

*Lakes and ditches—July.*

Duddingston Loch, Old Quarry near Blackhall, Corstorphine. Naturalised.

ANACHARIS. RICH.

*A. Alsinastrum*, Bab. Water Thyme.

*Ponds, ditches, canals, and streams—July—September.*

Pond at Warriston, near Elie, Dunglass. Introduced.

Found in the Botanic Garden Pond, but it was not introduced knowingly, and from this pond it has been carried to Warriston.

*N. O.—Orchidaceæ—The Orchis Family.*

## ORCHIS. LINN.

*O. mascula*, L. Early Purple Orchis.*Woods and pastures—May, June.*

Dalmeny, Dalmahoy, North Queensferry, Currie, Roslin, etc.

*O. maculata*, L. Spotted Hand or Palmate Orchis.*Woods, pastures, and heaths—May, June.*

Ravelrig, banks of Canal, Pentland Hills, Lomond Hills, Craiglockhart, etc.

*O. latifolia*, L. Marsh Orchis.*Marshes and moist meadows—June, July.*

Ravelrig, Drem, Queen's Park, Pentland Hills, Roslin, etc.

*O. pyramidalis*, L. Pyramidal Orchis.*Pastures and waste places—June—August.*

Largo, among Bent on sand.

## GYMNADENIA. R. BR.

*G. conopsea*, R. Br. Fragrant Red-handed Orchis.*Dry pastures and heathy places—June—August.*

Dalmahoy, near Dunfermline, Lomond Hills, North Queensferry, Kincardine, Dollar, etc.

*G. albida*, Rich. Small White Orchis.*Hilly pastures—June—August.*

Dunfermline, Lethens Moor, Devon, Cardenden, North Queensferry, near Whitburn, Lomonds.

## HABENARIA. R. BR.

*H. viridis*, R. Br. Green Frog-Orchis.*Dry hilly pastures—June—August.*

Hills about the Black Loch near Dunfermline, Dalmahoy, Pentland Hills, Glen Devon, Queensferry, Newbattle, Kilconquhar, Habbie's Howe.

**H. bifolia**, R. Br. Lesser Butterfly Orchis.*Woods, meadows, and marshy places—June—August.*

Ravelrig, Pentland Hills, Auchindinny, Gullane, Dunfermline, Falkland, Dollar.

**H. chlorantha**, Bab. Great Butterfly Orchis.*Pastures and heaths—May—July.*

Ravelrig, Lethens Moor, Pentland Hills, Dalmahoy, Ochils, near Dunfermline.

## LISTERA. R. BR.

**L. ovata**, R. Br. Common Tway-blade.*Woods and moist pastures—May—July.*

Dalmeny, Ravelrig, Pentland Hills, Gosford, Donibristle, Queensferry, Raith, Dysart, Drem, Burntisland, etc.

**L. cordata**, R. Br. Heart-leaved Tway-blade.*Heathy, hilly places—June—August.*

Ravelrig Bog, West Lomond Hill, Knock Hill near Dunfermline, Pentland Hills, Habbie's Howe.

## NEOTTIA. LINN.

**N. Nidus-avis**, Rich. Common Bird's Nest.*Shady woods—May, June.*

Roslin, Auchindinny, Cramond, Dalkeith, Arniston, Penicuick, Craighall, Tynehead, Burntisland, Prestonhall, Dalhousie.

## EPIPACTIS. RICH.

**E. latifolia**, All. Broad-leaved Helleborine.*Woods—July, August.*

Dalmeny, Woodcockdale, Dalhousie, North Berwick, Dalkeith, Lasswade, etc.

**E. palustris**, Sw. Marsh Helleborine.*Moist and marshy places—July.*

Roman Camp near Dalkeith, Elie, Anstruther.

## CEPHALANTHERA. RICH.

C. **ensifolia**, Rich. Narrow-leaved White Helleborine.

*Woods—May, June.*

Dalmahoy, Broomhall near Dunfermline.

## CORALLORHIZA. HALL.

C. **innata**, R. Br. Spurless Coral-root.

*Marshy woods—July.*

Bog and woods of Ravelrig, near Culross, near Dunfermline.

## MALAXIS. Sw.

M. **paludosa**, Sw. Bog-Orchis.

*Spongy bogs among sphagnum—July—September.*

North Queensferry Hills (Dr. Dewar).

## N. O.—Iridaceæ—The Iris Family.

## IRIS. LINN.

I. **Pseud-acorus**, L. Yellow Water Iris, or Flag.

*Watery places, sides of ditches, etc.—June, July.*

Duddingston Loch, Roslin woods by the river side, Loch-end, Dunfermline, North Berwick, Drem, Kincardine, Prestonpans.

I. **fœtidissima**, L. Fetid Iris or Gladdon.

*Woods and thickets—May—July.*

Arniston, near Dunfermline (Dr. Dewar).

[I. **germanica**, L. Garden Iris.

Is occasionally met with as an escape from gardens.]

[Crocus **aureus**, Sm. Golden Crocus.

Is occasionally found as an escape from gardens.]

*N. O.—Amaryllidaceæ*—The Amaryllis Family.

## NARCISSUS. LINN.

**N. poeticus**, L. The Poet's Narcissus.*Sandy places—April, May.*

Bass Rock. Introduced.

**N. Pseudo-narcissus**, L. Common Daffodil.*Woods and pastures—March, April.*

Culross, Corstorphine, Roslin, Currie, Colinton, Dunfermline, Burntisland, Mid-Calder.

## GALANTHUS. LINN.

**G. nivalis**, L. Common Snowdrop.*Woods, pastures, etc.—February, March.*

Arniston, Dalkeith, Colinton, etc.

*N. O.—Liliaceæ*—The Lily Family.

## ASPARAGUS. LINN.

**A. officinalis**, L. Common Asparagus.*Sea-coast—August.*

Sea-shore Gullane and Gosford. Probably introduced.

## CONVALLARIA. LINN.

**C. majalis**, L. Lily of the Valley.*Woods and coppices—May, June.*

Colinton, Dysart, Arniston. Introduced.

## POLYGONATUM. TOURN.

**P. multiflorum**, All. Common Solomon's Seal.*Woods—May.*

Near Ormiston, Dysart, Granton. Introduced.

## RUSCUS. LINN.

**R. aculeatus**, L. Common Butcher's Broom, Kneeholm.

*Woods and heathy places—March, April.*

Dalkeith, Dysart, Colinton, Roslin. Introduced.

## TULIPA. LINN.

**T. sylvestris**, L. Wild Tulip.

*Open woods—April, May.*

Banks of Water of Leith above Currie, behind the stables at Donibristle, old quarry at Binny Craig near Linlithgow, near Pitreavie and Otterstone Fife, wood a little to the N.W. of Burntisland.

[**Lilium Martagon**, L. Turk's-cap Lily.

Is found in Arniston Woods, and on banks of Water of Leith, as an escape from gardens.]

## ORNITHOGALUM. LINN.

**O. umbellatum**, L. Common Star of Bethlehem.

*Meadows, pastures, and woods—May, June.*

Water of Leith near Woodhall, Dysart Woods, Roslin, behind Donibristle House. Probably introduced.

[**O. nutans**, L. Nodding Star of Bethlehem.

Is occasionally found in woods as an escape from gardens.]

## GAGEA. SALISB.

**G. lutea**, Ker. Yellow Gagea.

*Woods and pastures—March—May.*

Auchertool Linn Fife, Carlowrie.

## ALLIUM. LINN.

**A. Scorodoprasum**, L. Sand Garlic.

*Sandy woods and fields—June, July*

Shore between Donibristle and St. Davids.

**A. vineale**, L. Crow Garlic.*Corn fields and waste places—June, July.*

Salisbury Crags, Elie, near Kinghorn, Craiglockhart, Donibristle, Queensferry.

**A. Schœnoprasum**, L. Chives or Chive Garlic.*Flat rocky pastures—June, July.*

Near Inverkeithing, Dalkeith. Doubtful native.

**A. ursinum**, L. Broad-leaved Garlic or Ramsons.*Damp woods and hedge banks—May, June.*

Roslin, Auchindinny, Colinton, Dalkeith, Arniston, etc.

## ENDYMION. DUMORT.

**E. nutans**, Dum. Wild Hyacinth or English Blue Bell.*Woods and hedge rows—April—June.*

Dalkeith, Dalmeny, Colinton, Roslin, etc.

*N. O.—Melanthaceæ*—The Meadow Saffron Family.[**Colchicum autumnale**, L. Common Meadow Saffron.

Has been found in a deserted orchard at the foot of the Pentland Hills, about 8 or 10 miles from Edinburgh, also near Alloa. Introduced.]

*N. O.—Juncaceæ*—The Rush Family.

## NARTHECIUM. HUDS.

**N. Ossifragum**, Huds. Lancashire Bog-Asphodel.*Turfy boggy places—June, July.*

Ravelrig, Pentland Hills, North Queensferry Hills, West Lomond Hills, Moor near Kennoway, near Dunfermline.

## JUNCUS. LINN.

**J. effusus**, L. Common Soft Rush.*Marshy ground—July.*

Roslin, Queen's Park, Currie, Pentland Hills, etc. Common.

**J. conglomeratus**, L. Round-headed Soft Rush.

*Marshy ground—July.*

Pentland Hills, Roslin, Lochend, Queen's Park, etc.  
Common.

**J. glaucus**, Sibth. Hard Rush.

*Wet pastures and roadsides—July.*

Pentland Hills, Newbattle, Duddingston, Kilconquhar, etc.

**β. diffusus**. Kincardine.

**J. triglumis**, L. Three-flowered Rush.

*Mountainous boggy places—July, August.*

Ochils, near Dollar.

**J. obtusiflorus**, Ehrh. Blunt-flowered Jointed Rush.

*Marshy places—July, August.*

Sea-coast east of Dunbar.

**J. acutiflorus**, Ehrh. Sharp-flowered Jointed Rush.

*Boggy places—June—August.*

Duddingston Loch, Dalmahoy, etc. Very common.

**J. lamprocarpus**, Ehrh. Shining-fruited Jointed Rush.

*Boggy ground and wet places—July, August.*

Gullane, Colinton, Duddingston, Slateford, Pentlands, etc.

**J. supinus**, Mœnch. Lesser Bog Jointed Rush.

*Boggy and swampy places—June—August.*

Ferry Hills, Lomond Hills, Fordel, Yester, etc.

**J. squarrosus**, L. Heath Rush.

*Heaths and moors—June, July.*

Pentland Hills, Braid Hill, etc. Common.

**J. compressus**, Jacq. Round-fruited Rush.

*Damp places—June—August.*

Between Granton and Cramond, Ravelrig, Queensferry, etc.

**β. Gerardi**, Mud Rush. Salt marshes at Cramond, Inverkeithing, etc.

**J. bufonius**, L. Toad Rush, or Toad-grass.

*Moist places—July, August.*

Banks of Canal, Newbattle, Pentland Hills. Common.

LUZULA. DE CAND.

**L. sylvatica**, Bich. Great Hairy Wood-Rush.

*Woods and hilly places—May, June.*

Dalmahoy, Roslin, Colinton, Arniston, etc. Common.

**L. pilosa**, Willd. Broad-leaved Hairy Wood-Rush.

*Woods and shady places—March—May.*

Arniston, Roslin, Auchindinny, etc. Common.

**L. campestris**, Willd. Field Wood-Rush.

*Dry pastures and woods—April, May.*

Arniston, Queen's Park, Pentland Hills, Queensferry, etc.

**B. congesta**. Roslin, Arniston, Burntisland, Linlithgow, etc.

*N. O.—Alismaceæ—The Water-Plantain Family.*

ALISMA. LINN.

**A. Plantago**, L. Greater Water-Plantain.

*Margins of lakes—July, August.*

Duddingston Loch, Linlithgow Loch, Lochend, etc.

**A. ranunculoides**, L. Lesser Water-Plantain.

*Bogs and ditches—July, August.*

Duddingston Loch, near Burntisland, Dunfermline.

*N. O.—Juncaginaceæ—The Arrow-Grass Family.*

TRIGLOCHIN. LINN.

**T. maritimum**, L. Sea-side Arrow-Grass.

*Muddy salt marshes—July, August.*

Inverkeithing, Gullane, Aberlady, North Queensferry, Kincardine, etc.

**T. palustre**, L. Marsh Arrow-Grass.*Wet meadows and marshy places—June—August.*

North Queensferry, Pentland Hills, Pettycur, Gullane, etc.

*N. O.—Butomaceæ*—The Flowering Rush Family.

## BUTOMUS. LINN.

**B. umbellatus**, L. Flowering Rush.*Sides of lochs and ditches—June—September.*

Duddingston Loch, Dollar. Introduced.

*N. O.—Typhaceæ*—The Bulrush Family.

## TYPHA. LINN.

**T. latifolia**, L. Great Reed-mace or Cat's-tail.*Sides of lakes and ponds—July, August.*

Dalkeith, Binns, Raith. Introduced.

**T. angustifolia**, L. Lesser Reed-mace.*Ponds and ditches—July.*

Loch of Lindores Fife.

## SPARGANIUM. LINN.

**S. ramosum**, Huds. Branched Bur-reed.*Banks of ditches and lakes—July.*

Duddingston Loch, Drem, Lochend, Braid, etc.

**S. simplex**, Huds. Unbranched Upright Bur-reed.*Ditches and stagnant waters—July.*

Duddingston, Braid, Dunearn, Corstorphine, Dollar.

**S. natans**, L. Floating Bur-reed.*Lakes and ditches—August.*

Ravelrig, Knock Hill, Loch Fittie, Pentland Hills, near Currie, Dunearn, Braid.

*N. O.—Araceæ*—The Arum Family.

## ARUM. LINN.

**A. maculatum**, L. Cuckoo-pint, Wake-Robin, or Lords and Ladies.

*Woods and hedge banks—April, May.*

Colinton, Dreghorn, Currie, Arniston, Dalhousie, Dysart.

*N. O.—Lemnaceæ*—The Duck-weed Family.

## LEMNA. LINN.

**L. trisulca**, L. Ivy-leaved Duck-weed or Water-Ivy.

*Clear stagnant water—June, July.*

Lochend, Quarry holes near Corstorphine, Duddingston Loch, Kinghorn, etc.

**L. minor**, L. Lesser Duck-weed.

*Stagnant water—June, July.*

Duddingston, Meadowbank, Black Loch, Loch Fittie, Loch-end, Kilconquhar, etc. Common.

**L. polystachya**, L. Greater Duck-weed.

*Stagnant water.*

Duddingston Loch.

Flowers have not been seen in Britain.

**L. gibba**, L. Gibbous Duck-weed.

*Stagnant water—June—August.*

Lochend, Duddingston, (Canonmills 1837, now drained).

*N. O.—Potamogetonaceæ*—The Pond-weed Family.

## POTAMOGETON. LINN.

**P. natans**, L. Sharp-fruited Broad-leaved Pond-weed.

*Ponds and ditches—June, July.*

Duddingston, Gullane, Muttonhole, Pentland Hills, Braid Hills, etc.

**P. oblongus**, Viv. Oblong-leaved Pond-weed.

*Ditches and ponds—July.*

Ravelrig, North Queensferry, Lomond Hills, Dunsapie,  
etc. Common.

**P. rufescens**, Schrad. Reddish Pond-weed.

*Ditches and slow streams—July.*

Near Kirkcaldy, Gullane.

**P. heterophyllus**, Schreb. Various-leaved Pond-weed.

*Ponds and ditches—June, July.*

Black Loch near Dunfermline, Lomond Hills.

**P. lucens**, L. Shining Pond-weed.

*Lakes and streams—June, July.*

Lochend, Dunfermline, Kinghorn.

**P. prælongus**, Wulf. Long-stalked Pond-weed.

*Lakes and ditches—June, July.*

Kinghorn Loch, Loch Leven, Loch behind Tayport.

**P. perfoliatus**, L. Perfoliate Pond-weed.

*Ditches, lakes, and streams—June, July.*

Dunfermline, Loch Leven.

**P. crispus**, L. Curly Pond-weed, Water Caltrops, Frog's  
Lettuce.

*Ditches and streams—June, July.*

Duddingston, Lochend, Corstorphine, Canal, etc.

**P. zosterifolius**, Schum. Grass-wrack-like Pond-weed.

*Rivers and lakes—June.*

Loch Gelly.

**P. gramineus**, L. Grassy Pond-weed.

*Ponds and ditches—June, July.*

Pond in Dysart grounds, Loch Leven.

Hufker 2 Denvers  
vs mts & gas to  
gasometer - rents

Hufker later bulk  
in Denver then has  
large m. m. mines

---



**P. pusillus**, L. Small Pond-weed.

*Ponds, ditches, and still water—June, July.*

Pentland Hills, near Musselburgh, Dalmahoy, Auchtertool  
Loch, Yester.

**P. pectinatus**, L. Fennel-leaved Pond-weed.

*Rivers, ponds, and streams—June, July.*

Lochend, Duddingston, Reservoir near Dunfermline.

**P. densus**, L. Opposite-leaved Pond-weed, Small Water  
Caltrops.

*Ditches and ponds—June, July.*

Gullane, Corstorphine, Duddingston.

#### RUPPIA. LINN.

**R. maritima**, L. Sea Ruppia or Tassel Pond-weed.

*Salt water pools and ditches—July, August.*

Gullane, Aberlady.

#### ZANNICHELLIA. LINN.

**Z. palustris**, L. Common or Horned Pond-weed.

*Ditches and stagnant water—May—August.*

Ravelrig, Lochend, Luffness, Cardenden Burn.

#### ZOSTERA. LINN.

**Z. marina**, L. Broad-leaved Grass-wrack.

*Salt water—July, August.*

Granton, Burntisland, Aberlady, Pettycur, Black Rocks at  
Leith.

## SUB-CLASS III.—GLUMIFERÆ.

*N. O.*—**Cyperaceæ**—The Sedge Family.

ELEOCHARIS. R. BR.

**E. palustris**, Br. Creeping Spike-rush.

*Wet marshy places—June, July.*

Duddingston, Lochend, Braid, Pentlands, etc. Common.

**E. uniglumis**, Link. Single-glumed Spike-rush.

*Wet sandy places—June, July.*

Near Blackness Castle.

**E. multicaulis**, Sm. Many-stalked Spike-rush.

*Marshy places—July.*

Dunfermline, Dollar, Pentland Hills, Blackness.

**E. acicularis**, Br. Least Spike-rush.

*Sides of lakes and wet places—July, August.*

Loch Leven, Loch Gelly, near Lasswade, Kinghorn Loch.

## SCIRPUS. LINN.

**S. sylvaticus**, L. Wood Club-rush.

*Damp woods and banks of rivers—July.*

Banks of Almond at Cramond Bridge, Roslin, Gogar Burn, Loch Fittie, Loch Gelly, Dysart.

**S. lacustris**, L. Lake Club-rush or Bulrush.

*Sides of lakes and ponds—June, July.*

Black Loch near Dunfermline, near Dunbar, Lochend, Duddingston, Kilconquhar, Luffness.

**S. cæspitosus**, L. Scaly-stalked Club-rush or Deer's Hair.

*Moist heathy places—June—August.*

Pentland Hills, Dalmahoy, Ochils, Lomonds, etc.

**S. pauciflorus**, Lightf. Chocolate-headed Club-rush.*Boggy moors and heaths—June—August.*

Hunter's Bog, Pentland Hills, North Queensferry, Aberdour, Dalmeny, Falkland, North Berwick.

**S. fluitans**, L. Floating Club-rush.*Ditches and ponds—June, July.*

Braid Hills, Ravelrig, Dunearn Hill.

**S. setaceus**, L. Bristle-stalked Club-rush.*Moist gravelly and sandy places—July, August.*

Duddingston, Pentlands, Burntisland, Roslin, near Dunfermline, Dysart, Yester, Queensferry.

## BLYSMUS. PANZ.

**B. compressus**, Panz. Broad-leaved Blysmus.*Boggy pastures—June, July.*

Ford, Borthwick, Ravelrig.

**B. rufus**, Link. Narrow-leaved Blysmus.*Marshy places near the sea—July.*

Prestonpans, Gullane, Dalmeny, Aberdour, Blackness, Tynningham, Queensferry.

## ERIOPHORUM. LINN.

**E. vaginatum**, L. Hare's-tail Cotton-grass.*Bogs and moors—May.*

Dalmahoy, Ravelrig, Pentland Hills, etc.

**E. angustifolium**, Roth. Narrow-leaved Cotton-grass.*Moors and turf-y bogs—May, June.*

Ravelrig, near Dunfermline, Borthwick, Pentland Hills, etc.

**β. polystachyon**, Ravelrig, Pentland Hills, Lomonds.

**E. latifolium**, Hoppe. Broad-leaved Cotton-grass.

*Bogs and heathy places—May, June.*

Crichton Castle, Pentland Hills, Roman Camp, Falls of Clyde.

CAREX. LINN.

**C. dioica**, L. Creeping Separate-headed Carex.

*Spongy bogs—May, June.*

Ravelrig, Pentlands, Lomonds, Blackford Hill.

**C. pulicaris**, L. Flea Carex.

*Boggy places—May, June.*

Lomond Hills, Ravelrig, Pentland Hills, etc.

**C. pauciflora**, Lightf. Few-flowered Carex.

*Hilly moory places—June, July.*

Knock Hill near Dunfermline.

**C. disticha**, Huds. Soft Brown Carex.

*Meadows and marshy places—May, June.*

Pentland Hills, Gullane, Crichton Castle, Kilconquhar, Lanark.

**C. arenaria**, L. Sea Carex.

*Sandy places near the sea—June.*

Between Granton and Cramond, Pettycur, Gullane, Fisherrow and Musselburgh Links, North Berwick, etc.

**C. incurva**, Lightf. Curved Carex.

*Sandy sea-shores—June.*

Shore near Longniddry.

**C. vulpina**, L. Great Carex.

*Wet shady places—June.*

Dalmeny, Aberdour, Pettycur, Gosford, Luffness, North Queensferry, Culross, etc.

**C. muricata**, L. Greater Prickly Carex.

*Wet gravelly pastures—June.*

Queen's Park, South Queensferry, Pentland Hills, Blackford Hill, Dalkeith, Yester.

**C. divulsa**, Good. Gray Carex.

*Moist shady pastures—May, June.*

Black Hill, Pentlands.

**C. teretiuscula**, Good. Lesser Paniced Carex.

*Wet boggy meadows—June.*

Ravelrig, Gullane, Dunfermline, North Queensferry, Dundas Hill, Kirkliston, Pentland Hills.

**C. paniculata**, L. Great Paniced Carex.

*Spongy boggy places—June.*

Pentland Hills, Penicuick, Borthwick, Newbattle, Dundas Hill, Gullane.

**C. Boenninghauseniana**, Weihe. Boenninghausen's Carex.

*Marshes and sides of ponds—June.*

Bog near Crichton Castle.

**C. remota**, L. Distant-spiked Carex.

*Woods and damp shady places—June.*

Culross, near Borthwick Castle, Roslin, Auchindinny, Arniston, etc.

**C. stellulata**, Good. Little Prickly Carex.

*Marshy and heathy places—May, June.*

Queen's Park, Hawthornden, Lomond Hills, Ravelrig, Pentland Hills, Roslin, etc. Common.

**C. curta**, Good. White Carex.

*Boggy places—June.*

Ravelrig, Lomond Hills, North Queensferry, Pentland Hills.

**C. ovalis**, Good. Oval-spiked Carex.*Meadows and boggy places—June.*Queen's Park, Lomond Hills, Roslin, Braid, Ravelrig,  
Pentland Hills, etc.**C. stricta**, Good. Tufted Bog Carex.*Marshy places—May, June.*Duddingston Loch, Dunfermline, Braid Hill, Lomond  
Hills, Banks of Water of Leith above Currie, Linlithgow  
Bridge.**C. acuta**, L. Slender-spiked Carex.*Moist meadows and pastures—May, June.*

Ravelrig, Arniston.

**C. aquatilis**, Wahl. Straight-leaved Water Carex.*Boggy places—July.*Abundant by the side of Loch Fittie near Dunfermline,  
also near Lanark.**C. vulgaris**, Fries. Common Carex.*Marshes and wet pastures—May, June.*Ravelrig, Queen's Park, Pentlands, Lomond Hills, Peni-  
cuick, etc. Common.**C. pallens**, L. Pale Carex.*Marshy places—June.*

Pentlands, Ravelrig Bog, Ochils, Dunfermline.

**C. panicea**, L. Pink-leaved Carex.*Marshes and boggy places—June.*Duddingston, Ravelrig, Pentlands, Lomonds, etc. Com-  
mon.**C. irrigua**, Hoppe. Mud Carex.*Spongy bogs and marshes—June.*Foot of Knock Hill near Dunfermline, near Symington,  
near Callander.

**C. strigosa**, Huds. Loose Pendulous Carex.*Groves and thickets—May, June.*

Arniston Woods.

**C. pendula**, Huds. Great Pendulous Carex.*Damp woods and shady places—May, June.*

Roslin, Arniston, Auchindinny, Dalkeith.

**C. præcox**, Jacq. Vernal Carex.*Dry pastures—April, May.*

Arthur's Seat, Dalmahoy, Dalhousie, Cramond, Lomonds, Pentland Hills, etc.

**C. pilulifera**, L. Round-headed Carex.*Wet moory places—May, June.*

Pentland Hills, Auchindinny, Aberdour, Prestonhall, Lomonds, Queen's Park, etc.

**C. glauca**, Scop. Glaucous Heath Carex.*Meadows and moist places—June.*

Arthur's Seat, Auchindinny, Slateford, Pentlands, Dalmeny, etc. Common.

**C. flava**, L. Yellow Carex.*Wet places—May, June.*

Hunter's Bog, Dalmahoy, Pentlands, Lomonds, etc. Common.

**C. Æderi**, Ehrh. Æder's Carex.*Turfy bogs—June, July.*

Gullane Links, Dalmahoy, Pentlands.

**C. extensa**, Good. Long-bracteate Carex.*Marshy places near the sea—June.*

Near Aberdour, near Dunbar, North Berwick.

**C. fulva**, Good. Tawny Carex.*Boggy places—June.*

Ravelrig, Duddingston, Pentlands, Prestonhall, Falkland, Queensferry.

**C. distans**, L. Loose Carex.

*Marshy places near the sea—May.*

Gullane, Inverkeithing, Luffness.

**C. binervis**, Sm. Green-ribbed Carex.

*Heaths and moors—June.*

Pentland Hills, Cardenden, Ochils, Lomond Hills, Dunfermline.

**C. laevigata**, Sm. Smooth-stalked Beaked Carex.

*Marshes and boggy woods—June.*

Roslin, Arniston, Dunfermline, Cardenden, Dysart.

**C. sylvatica**, Huds. Pendulous Wood Carex.

*Moist woods—May, June.*

Roslin, Prestonhall, Auchindinny, Falls of Clyde, Mavisbank, Arniston, Yester.

**C. filiformis**, L. Slender-leaved Carex.

*Boggy marshes—May.*

Ravelrig Bog.

**C. hirta**, L. Hairy Carex.

*Wet pastures and woods—May, June.*

Duddingston, Craiglockhart, Drehorn, Arniston, Cramond, Lomonds, etc.

**C. ampullacea**, Good. Slender-beaked Bottle Carex.

*Marshes and bogs—June.*

Ravelrig, Dunfermline, Crichton Bog, Lomond Hills, Duddingston Loch, Pentland Hills, etc.

**C. vesicaria**, L. Short-beaked Bladder Carex.

*Bogs and marshes—May, June.*

Auchindinny, Ravelrig Bog, Pentland Hills, Falkland.

**C. paludosa**, Good. Lesser Common Carex.

*Wet places—May, June.*

Ravelrig, Roslin, Crichton Bog, Currie, Arniston, etc.

**C. riparia**, Curt. Great Common Carex.*Wet places, ditches, etc.—May.*

Duddingston, Arniston, Yester, Gullane.

**N. O.—Gramineæ—The Grass Family.****KNAPPIA.** SM.**K. agrostidea**, Sm. Early Knappia.*Sandy pastures by the sea—March—May.*

Sandy shore near Gosford. Introduced.

**PHALARIS.** LINN.**[P. canariensis**, L. Cultivated Canary-grass.*Waste places—July.*Kinghorn, Queen's Park, Burdiehouse, Figgot Whins.  
Introduced, and not native.]**P. arundinacea**, L. Reed Canary-grass.*Sides of lakes and rivers—July, August.*

Tynehead, Duddingston Loch, Lochend, etc.

Leaves sometimes variegated with white lines, and called  
Ribbon Grass, Striped Grass, and Gardener's Garters.**ANTHOXANTHUM.** LINN.**A. odoratum**, L. Vernal Grass.*Meadows and pastures—May, June.*

Queen's Park, Caroline Park, etc. Very common.

**PHLEUM.** LINN.**P. arenarium**, L. Sea Cat's-tail-grass.*Sandy places near the sea—May, June.*Aberlady, between Burntisland and Pettycur, Prestonpans,  
Tynningham, North Berwick.

**P. pratense**, L. Common Cat's-tail, or Timothy-grass.

*Meadows and pastures—June—October.*

Queen's Park, Braid Hills, St. Davids, Pentland Hills, etc.

ALOPECURUS. LINN.

**A. pratensis**, L. Meadow Fox-tail-grass.

*Meadows and pastures—May, June.*

Queen's Park, Craiglockhart, Pentland Hills, Falkland, etc.

**A. geniculatus**, L. Floating Fox-tail-grass.

*Wet marshy places—May—August.*

North Queensferry, Braid, Corstorphine, Duddingston, etc.

**A. fulvus**, Sm. Orange-spiked Fox-tail-grass.

*Ponds and ditches—July.*

Has been found in Fifeshire.

**A. agrestis**, L. Slender Fox-tail-grass.

*Fields and waysides—May—October.*

St. Davids, North Berwick. Probably introduced.

NARDUS. LINN.

**N. stricta**, L. Mat-grass.

*Moors and heaths—June.*

Arthur's Seat, Pentlands, Ravelrig, Lomond Hills, etc.

MILIUM. LINN.

**M. effusum**, L. Spreading Millet-grass.

*Damp shady woods—June.*

Arniston, Roslin, Dalhousie, Newbattle, Dysart.

## PHRAGMITES. TRIN.

**P. communis**, Trin. Common Reed.

*Ditches and sides of lakes—July, August.*

Duddingston, Kilconquhar, Luffness, Kincardine, etc.

## PSAMMA. BEAUV.

**P. arenaria**, R. et S. Common Sea-reed, Marram or Mat-weed.

*Sandy sea-shores—July.*

Caroline Park, Burntisland, Dirleton, Aberlady, Tynningham, etc.

## AGROSTIS. LINN.

**A. canina**, L. Brown Bent-grass.

*Moist heaths and moory places—June, July.*

Ravelrig, Queen's Park, Braid Hills, Pentlands, etc.

**A. vulgaris**, With. Fine Bent-grass.

*Meadows and pastures—June, July.*

Arthur's Seat, Queen's Park, Pentlands, etc.

**B. pumila**. Pentland Hills, Bruntsfield Links, North Queensferry, North Berwick, Dunfermline.

**A. alba**, L. Marsh Bent-grass.

*Pastures and roadsides—July, August.*

Duddingston, Braid Hills, Pentlands, North Berwick, Kilconquhar, Dunfermline, etc.

**B. subrepens**. Lochend, Duddingston.

## HOLCUS. LINN.

**H. lanatus**, L. Meadow Soft-grass.

*Meadows, pastures, and woods—June, July.*

Braid, Pentlands, Queen's Park, etc.

**H. mollis**, L. Creeping Soft-grass.

*Pastures and hedges—July.*

Roslin, Lasswade, Borthwick, Auchindinny, etc.

AIRA. LINN.

**A. cæspitosa**, L. Tufted Hair-grass.

*Bogs and moist shady places—July.*

Braid, Dalhousie, Colinton, Roslin, etc.

**A. flexuosa**, L. Waved Hair-grass.

*Heathy and hilly places—July.*

Braid, Pentlands, Queen's Park, Blackford, Dunfermline, Lomonds, etc.

**A. caryophyllea**, L. Silvery Hair-grass.

*Pastures and hilly places—June, July.*

Salisbury Crags, Queensferry, Dirleton, Burntisland, Pentlands, etc.

**A. præcox**, L. Early Hair-grass.

*Sandy hilly pastures—May, June.*

Salisbury Crags, Queensferry, Dalmahoy, Pentland Hills, etc.

TRISETUM. PERS.

**T. flavescens**, Beauv. Yellow Oat-grass.

*Meadows and pastures—July.*

Salisbury Crags, Braid, Queensferry, Dalhousie, Pentland Hills, etc.

AVENA. LINN.

**A. fatua**, Wild Oat or Haver.

*Fields—June, July.*

Cockenzie and Port Seaton.

**A. pratensis**, L. Narrow-leaved Perennial Oat-grass.

*Dry pastures and heathy places—June, July.*

Craiglockhart, Queen's Park, Burntisland, North Queensferry, etc.

**G. longifolia**. Woods near the Firth of Forth.

**A. pubescens**, L. Downy Oat-grass.

*Pastures and rocks—June, July.*

Dalmeny, Hawthornden, Pettycur, Dunfermline, Queen's Park, North Queensferry, Habbie's Howe.

### ARRHENATHERUM. BEAUV.

**A. avenaceum**, Beauv. Common False Oat-grass.

*Hedges and pastures—June, July.*

Queen's Park, Roslin, Arniston, Auchindinny, Queensferry, etc.

### TRIODIA. R. BR.

**T. decumbens**, Beauv. Decumbent Heath-grass.

*Heathy pastures and moors—July.*

Dalmahoy, Queensferry, Pentlands, Burntisland, Queen's Park, etc.

### KOELERIA. PERS.

**K. cristata**, Pers. Crested Koeleria.

*Dry pastures and banks—June, July.*

Salisbury Crags, Braid Hills, North Queensferry, Calton Hill, Drem, etc.

### MELICA. LINN.

**M. uniflora**, Retz. Wood Melic-grass.

*Shady woods—May—July.*

Roslin, Colinton, Borthwick, Newbattle, Kincardine, Dalkeith, etc.

**M. nutans**, L. Mountain Melic-grass.

*Hilly woods—May, June.*

Roslin, Hawthornden, Lethensden, Penicuick.

MOLINIA. SCHRANK.

**M. cærulea**, Mœnch. Purple Molinia.

*Wet heathy and moory places—July, August.*

Roslin, Hawthornden, Pentland Hills, Ravelrig, Dunfermline, etc.

**β. depauperata**. Ravelrig, Dunfermline.

POA. LINN.

**P. annua**, L. Annual Meadow-grass.

*Meadows, pastures, and roadsides—March—October.*

Queen's Park, etc. Common everywhere.

**P. nemoralis**, L. Wood Meadow-grass.

*Woods and shady places—June, July.*

Roslin, Auchindinny, Dalhousie, etc.

**P. trivialis**, L. Roughish Meadow-grass.

*Meadows and pastures—June, July.*

Queen's Park, etc. Very common.

**P. pratensis**, L. Smooth-stalked Meadow-grass.

*Meadows and pastures—June, July.*

Queen's Park, Slateford, Burntisland, etc. Common.

**P. compressa**, L. Flat-stemmed Meadow-grass.

*Walls and dry barren places—June, July.*

Queen's Park, etc.

GLYCERIA. R. BR.

**G. aquatica**, Sm. Great Water Reed-grass.

*Sides of ponds and ditches—July, August.*

Duddingston, Lochend, Culross.

**G. fluitans**, R. Br. Flote-grass or Manna Croup-grass.

*Ditches and stagnant water—July, August.*

Duddingston, Lochend, Arniston, Dunfermline, etc.

SCLEROCHLOA. BEAUV.

**S. maritima**, Lindl. Creeping Sea Hard-grass.

*Sea-coast—July.*

Caroline Park, Dalmeny, Inverkeithing, Burntisland, Kincardine, Aberlady, etc.

**S. distans**, Bab. Reflexed Hard-grass.

*Sandy places near the sea—July, August.*

Inverkeithing, Kincardine.

**S. rigida**, Link. Rigid Hard-grass.

*Dry barren places—June.*

Salisbury Crags and Arthur's Seat, Cramond Island, Preston Grange, Blackford Hill, Burntisland.

**S. loliacea**, Woods. Dwarf Wheat Hard-grass.

*Sandy sea-shores—June, July,*

Burntisland, Caroline Park, North Queensferry, rocks west of Granton, St. Andrews.

BRIZA. LINN.

**B. media**, L. Common Quaking-grass, Lady's Hair.

*Meadows and pastures—June.*

Queen's Park, Dalmahoy and Ravelrig, Pentland Hills, etc.

CATABROSA. BEAUV.

**C. aquatica**, Beauv. Water Whorl-grass.

*Ponds, ditches, and banks of rivers—May—July.*

Duddingston, Figget Whins, Gullane Loch, Lochend, Dunfermline, etc.

## CYNOSURUS. LINN.

**C. cristatus**, L. Crested Dog's-tail-grass.

*Dry pastures—July.*

Duddingston, Arthur's Seat, etc. Very common.

**C. echinatus**, L. Tough Dog's-tail-grass.

*Fields and sea-shore—July.*

Found occasionally in fields near Edinburgh. Introduced.

## DACTYLIS. LINN.

**D. glomerata**, L. Cock's-foot-grass.

*Roadsides, meadows, and woods—June, July.*

Calton Hill, Queen's Park, Currie, etc. Very common.

## FESTUCA. LINN.

**F. sciurooides**, Roth. Barren Fescue-grass.

*Dry pastures and walls—June.*

Wall near Ravelston, near Slateford, Arthur's Seat, Loch-end, Dunfermline.

**β. Myurus**, Mouse-tailed Fescue-grass. Near North Queensferry.

**F. ovina**, L. Sheep's Fescue-grass.

*Dry hilly pastures—June, July.*

Queen's Park, Pentland Hills, Braid Hills, Blackford, etc. Common.

**β. duriuscula**. Salisbury Crags, Burntisland, Aberlady, Arniston, Dalmahoy, etc.

**γ. rubra**. Sandy sea-shore near North Queensferry.

**F. sylvatica**, Vill. Reed Fescue.

*Mountain woods—July.*

Roslin and Hawthornden.

**F. gigantea**, Vill. Tall bearded Fescue.

*Shady woods and moist hedges.*

Woodcockdale, Roslin, Yester, etc.

**F. arundinacea**, Schreb. Tall Fescue.

*Moist pastures and banks—June, July.*

Roslin, Auchindinny, Pettycur, Colinton, Queensferry,  
etc.

**F. pratensis**, Huds. Meadow Fescue.

*Meadows, pastures, and banks of rivers—June, July.*

Queen's Park, Arthur's Seat, Dunfermline, Kinghorn,  
Dalkeith, etc.

#### BROMUS. LINN.

**B. erectus**, Huds. Upright Brome-grass.

*Sandy fields and roadsides—June, July.*

Queen's Park, Dunfermline, Pettycur, Kirkcaldy.

**B. asper**, L. Hairy Wood Brome-grass.

*Moist woods and hedges—June, July.*

Colinton, Arniston, Roslin, Auchindinny, Aberdour, etc.

**B. sterilis**, L. Barren Brome-grass.

*Waste ground and fields—June.*

Duddingston, Arthur's Seat, etc. Very common.

**B. diandrus**, Curt. Upright Annual Brome-grass.

*Sandy barren places—June, July.*

**B. rigidus**. St. Davids, Fife.

#### SERRAFALCUS. PARL.

**S. secalinus**, Bab. Smooth Rye Brome-grass.

*Corn fields—June, July.*

Near Roslin.

**B. velutinus**. Between Edinburgh and Newhaven.

**S. commutatus**, Bab. Tumid Field Brome-grass.

*Corn fields and roadsides—June, July.*

Newbattle, near Granton, Duddingston, Dysart, Dunfermline.

**S. mollis**, Parl. Soft Brome-grass, Lop-grass.

*Pastures, fields, banks, and roadsides—May, June.*

Queen's Park, etc. Very common.

### BRACHYPODIUM. BEAUV.

**B. sylvaticum**, R. et S. Slender False Brome-grass.

*Woods and hedges—June, July.*

Aberdour, Roslin, Colinton, etc. Common.

### TRITICUM. LINN.

**T. caninum**, Huds. Fibrous-rooted Wheat-grass.

*Woods and banks—July.*

Aberdour, between Caroline Park and Cramond, Lasswade, Dalhousie, etc.

**T. repens**, L. Creeping Wheat-grass or Couch-grass.

*Fields and waste places—June—August.*

Queen's Park, Caroline Park, North Berwick, Queensferry, etc. Common.

**T. littoreum**. Sandy shores of Firth of Forth.

**T. junceum**, L. Rushy Sea Wheat-grass.

*Sandy sea-shores—July, August.*

Caroline Park, Burntisland, Inverkeithing, etc.

### ELYMUS. LINN.

**E. arenarius**, L. Upright Sea Lyme-grass.

*Sandy sea-shores—July.*

North Berwick, St. Andrews.

## HORDEUM. LINN.

**H. pratense**, Huds. Meadow Barley.

*Meadows and pastures—June, July.*

Kincardine, St. Andrews.

**H. murinum**, L. Wall or Mouse Barley, or Way-Bennet.

*Waste ground by walls and roadsides—June, July.*

Granton, Queen's Park, Queensferry, Burntisland, etc.  
Common.

**H. maritimum**, With. Sea-side Bennet or Squirrel-tail-grass.

*Sandy pastures near the sea—June.*

Kincardine.

## LEPTURUS. R. BR.

**L. incurvatus**, Trin. Sea Hard-grass.

*Sandy places near the sea—July.*

St. Davids, on ballast.

**β. filiformis**. Aberlady, Gullane.

## LOLIUM. LINN.

**L. perenne**, L. Perennial or Beardless Rye-grass.

*Pastures, roadsides, and waste places—June, July*

Queen's Park, Lasswade, Queensferry, etc. Very common.

**β. aristatum**. Caroline Park, Bonnington Toll-bar.

**L. italicum**, A. Braun. Italian Rye-grass.

*Fields and waste places—June.*

Queensferry, Longniddry, Kincardine, Kilconquhar, Yester.  
Introduced.

**L. temulentum**, L. Darnel.

*Corn fields—June—August.*

Tranent, Haddington. Introduced.

### CLASS III.—ACOTYLEDONES OR ACROGENÆ.

*N. O.—Filices*—The Fern Family.

CRYPTOGRAMME. R. BR.

C. *crispa*, Br. Rock-brake, Parsley-fern.

*Amongst loose stones in mountainous places—July.*

Near Habbie's Howe, Knock Hill near Dunfermline, West Lomond Hills, Gala Water.

POLYPODIUM. LINN.

P. *vulgare*, L. Common Polypody.

*Rocks, banks, walls, and trunks of trees—June—August.*

Queen's Park, Roslin, Pentland Hills, Arniston, Dalmahoy, etc.

P. *Phegopteris*, L. Mountain Polypody or Beech-fern.

*Woods and damp shady places—June—August.*

Arniston, Bevelaw Burn, Auchindinny, Penicuick Glen, Roslin, Habbie's Howe, West Lomond Hill.

P. *Dryopteris*, L. Tender Three-branched Polypody or Oak-fern.

*Dry shady places—June—August.*

Penicuick Glen, Auchindinny, Roslin, Arniston, Habbie's Howe, Woodcockdale, etc.

LASTREA. PRESL.

L. *Oreopteris*, Presl. Heath Shield-fern or Sweet Mountain-fern.

*Heathy dry places—July.*

Habbie's Howe, Pentland Hills, Roslin, Arniston, Bevelaw Burn, West Lomonds, Dollar.

**L. *Filix-mas***, Presl. Male-Fern.*Woods and banks—June, July.*

Queen's Park, Roslin, Arniston, Hopetoun, etc. Common.

**L. *spinulosa***, Presl. Narrow Prickly-toothed-fern.*Marshy places and wet woods—August—September.*

Town Wood near Dunfermline.

**L. *dilatata***, Presl. Broad Prickly-toothed-fern.*Woods, moors, banks, and shady rocky places—August, September.*

Habbie's Howe, Swanston, Roslin, Dalhousie, Auchindinny, Arniston, Braid, etc.

## POLYSTICHUM. ROTH.

**P. *aculeatum***, Roth. Prickly Shield-fern.*Woods and hedge banks—July, August.*

Roslin, Arniston, Dalhousie, Braid, Corstorphine, Penicuick, etc.

**β. *lobatum***, Roslin, Arniston, Dalhousie, etc.

## CYSTOPTERIS. BERNH.

**C. *fragilis***, Ber. Brittle Bladder-fern. *Rocks and walls—July, August.*

South Esk, Arniston, Pentland Hills, Habbie's Howe, West Lomond Hills, Yester, Dollar.

## ATHYRIUM. ROTH.

**A. *Filix-fœmina***, Roth. Lady-fern.*Woods and moist places—June, July.*

Queen's Park, Roslin, Auchindinny, Arniston, Dalhousie, etc.

## ASPLENIUM. LINN.

A. **Adiantum-nigrum**, L. Black Spleenwort.*Rocks and walls—June—September.*

Queen's Park, Braid and Blackford Hills, Roslin, Arniston, North Queensferry, Burntisland, Dysart, etc.

A. **Trichomanes**, L. Maiden-hair Spleenwort.*Rocks and walls—May—October.*

Queen's Park, Habbie's Howe, Arniston, Braid and Blackford Hills, etc.

A. **viride**, Huds. Green Spleenwort.*Moist rocks in mountainous places—July—September.*

West Lomond Hills, Falls of Clyde, near Alloa.

A. **marinum**, L. Sea Spleenwort.*Rocks and caves by the sea—June—October.*

Inchcolm, St. Davids, Coves at Wemyss, Elie.

A. **Ruta-muraria**, L. Wall-Rue or Tentwort.*Old walls and fissures of rocks—May—September.*

Queen's Park, North Queensferry, Braid and Blackford Hills, Penicuick, Dysart, Burntisland, etc.

A. **germanicum**, Weiss. Alternate-leaved Spleenwort.*Rocks—June—September.*

Blackford Hill (Dr. Andrew Inglis).

A. **septentrionale**, Hull. Forked Spleenwort.*Dry rocky places—June—October.*

Arthur's Seat, Blackford Hill.

## SCOLOPENDRIUM. SM.

S. **vulgare**, Sym. Common Hart's Tongue.*Shady damp banks, rocks, and walls—July, August.*

Roslin, South Esk, Bilton Burn, Colinton, Arniston, Aberdour.

## CETERACH. WILLD.

**C. officinarum**, Willd. Common Ceterach or Scale-fern.

*Old walls and rocks—June—September.*

Renton, Berwickshire.

## BLECHNUM. LINN.

**B. boreale**, Sw. Northern Hard-fern.

*Open woods and heaths—July, August.*

Pentland Hills, Roslin, Arniston, Dalmahoy, Lomond Hills, etc.

## PTERIS. LINN.

**P. aquilina**, L. Common Brake.

*Open woods, heaths, and hilly places—July, August.*

Pentland Hills, Currie, Dalmahoy, Braid and Blackford Hills, Roslin, etc. Common.

## HYMENOPHYLLUM. SM.

**H. Wilsoni**, Hook. Scottish or Wilson's Filmy-fern.

*Damp and wet rocks amongst moss—July.*

West Lomond Hills, Dollar.

## OSMUNDA. LINN.

**O. regalis**, L. Royal Osmund or Flowering-fern.

*Boggy places and wet margins of woods—June—August.*

Kincardine, Culross, Pentcaitland.

## BOTRYCHIUM. SW.

**B. Lunaria**, Sw. Common Moonwort.

*Dry pastures—June, July.*

Burntisland Links, Aberdour, Roman Camp above Newbattle, Caroline Park, near Currie, Prestonhall, Balmuto, Dollar.

## OPHIOGLOSSUM. LINN.

**O. vulgatum**, L. Common Adder's Tongue.

*Moist pastures and woods—May, June.*

Arniston, Carlowrie, Balmuto, near Little Vantage, Prestonhall, Linlithgow, Burntisland, Dalmeny, Dollar.

*N. O.—Marsileaceæ—The Pepperwort Family.*

## PILULARIA. LINN.

**P. globulifera**, L. Creeping Pillwort or Pepper-grass.

*Margins of ponds and lakes—June, July.*

Pentland Hills west from Currie, Braid Hill Marshes, West Lomond Hill.

*N. O.—Lycopodiaceæ—The Club-moss Family.*

## LYCOPODIUM. LINN.

**L. clavatum**, L. Common Club-moss.

*Heathy pastures—July, August.*

Pentland Hills, near Dunfermline, West Lomond Hills.

**L. alpinum**, L. Savin-leaved Club-moss.

*On the higher hills—August.*

Black Hill, Pentlands.

**L. Selago**, L. Fir Club-moss.

*Heathy places on the hills—June—August.*

Pentland Hills above Swanston, Tynehead.

**L. inundatum**, L. Marsh Club-moss.

*Boggy heathy places—June—August.*

Tentsmuir.

**L. selaginoides**, L. Lesser Alpine Club-moss.

*Boggy and wet places—August.*

Pentland Hills, Gullane, West Lomond Hill.

*N. O—Equisetaceæ—The Horse-tail Family.*

## EQUISETUM. LINN.

**E. arvense**, L. Corn Horse-tail.*Fields, banks, and roadsides—April.*

Lasswade, Duddingston, Currie, Arniston, etc.

**E. umbrosum**, Willd. Blunt-topped Horse-tail.*Wet places in woods—April.*

Penicuick, Auchindinny, Woodcockdale, Dollar, Lethenden, West Lomond Hill, Castle Campbell, Falls of Clyde, Bridge of Allan.

**E. maximum**, Lam. Great Water Horse-tail.*Shady wet places—April.*

Roslin, Arniston, near Kennoway, Auchindinny, Lasswade, Dalhousie, Juniper Green.

**E. sylvaticum**, L. Branched Wood Horse-tail.*Moist woods and hedge banks—April, May.*

Auchindinny, Roslin, Arniston, Ravelrig, Braid Hermitage, Pentland Hills, Currie, etc.

**E. limosum**, L. Smooth Naked Horse-tail.*Pools, sides of lakes and rivers—June, July.*

North Queensferry, Duddingston Loch, Ravelrig Bog, Braid Hills, Roslin, Gullane, Dunfermline, etc.

**E. palustre**, L. Marsh Horse-tail.*Marshes and boggy places—June, July.*

Duddingston, Lochend, Roslin, Muttonhole, Dirleton, Lomond Hills, Colinton, Gullane, Lasswade, etc.

**E. hyemale**, L. Rough Horse-tail or Dutch Rushes.*Moist banks and woods—July, August.*

Auchindinny, near Currie, Roslin, Falls of Clyde.

**E. variegatum**, Schl. Variegated Rough Horse-tail.*Wet places, generally near the sea—July, August.*

Near North Berwick, St. Andrews.

*N. O.—Musci—The Moss Family.*

*Sect. 1.—Acrocarpi.*

**Andreæa**, Ehrh.

rupestris, Hedw.

Rothii, W. et M.

*Swanston, Habbie's Howe.*

**Sphagnum**, Dill.

cymbifolium, Ehrh.

compactum, Brid.

molluscum, Bruch.

*West Lomond Hill.*

rubellum, Wils.

*Pentlands, Bankhead.*

acutifolium, Ehrh.

fimbriatum, Wils.

cuspidatum, Ehrh.

contortum, Schu.

$\beta.$  subsecundum.

$\gamma.$  obesum.

*Ravelrig, West Lomond Hill.*

squarrosum, Pers.

**Phascum**, Linn.

serratum, Schr.

muticum, Schr.

*Leuchars, Experimental Gar-  
den.*

rectum, Sm.

*Queen's Park.*

cuspidatum, Schr.

$\beta.$  piliferum.

nitidum, Hedw.

subulatum, L.

alternifolium, B. et S.

*Walks in Experimental Gar-  
den.*

crispum, Hedw.

*Caroline Park.*

**Gymnostomum**, Hedw.

tenue, Schrad.

*Auchindinny.*

rupestre, Schw.

*Habbie's Howe, Balmerino.*

curvirostrum, Hedw.

*West Lomond Hill, Pent-  
lands.*

microstomum, Hedw.

*Queen's Park, Kinghorn,  
Lucklaw Hill.*

tortile, Schw.

*Newhaven.*

**Weissia**, Hedw.

controversa, Hedw.

cirrhata, Hedw.

*Braid, Binny-Craig.*

crispula, Hedw.  
verticillata, Brid.

**Rhabdoweissia**, B. et S.  
denticulata, B. et S.  
*West Lomond Hill.*

**Seligeria**, B. et S.  
recurvata, B. et S.

**Blindia**, Wils.  
acuta, B. et S.  
*Lomonds, Pentlands.*

**Cynodontium**, B. et S.  
Bruntoni, B. et S.

**Dicranum**, Hedw.  
polycarpum, Ehrh.  
*Lomonds, Damyat.*  
pellucidum, Hedw.  
squarrosum, Schrad.  
*Kirkyetton Hill, Lomonds, Anstruther.*  
Schreberi, Hedw.  
*Briech Burn, Kirkyetton.*  
varium, Hedw.  
rufescens, Turn.  
cerviculatum, Hedw.  
*St. Davids, Lomonds, Bank-head.*  
subulatum, Hedw.  
*West Calder.*  
heteromallum, Hedw.  
 $\beta.$  strictum.  
*Lucklaw Hill.*

scottianum, Turn.  
*Kerrick's Den.*  
fuscesens, Turn.  
scoparium, Hedw.  
palustre, Brid.  
majus, Turn.

**Leucobryum**, Hampe.  
glaucum, Ham.

**Ceratodon**, Brid.  
purpureus, Brid.

**Campylopus**, Brid.  
torfaceus, B. et S.  
*Pentlands, Lomonds, etc.*  
flexuosus, Brid.  
longipilus, Brid.  
*Lomonds.*

**Pottia**, Ehrh.  
cavifolia, Ehrh.  
 $\beta.$  ovatum.  
truncata, B. et S.  
Wilsoni, B. et S.  
*Haymarket Station.*  
crinita, Wils.  
*Fife Coast.*  
Heimii, B. et S.  
*Leith Links, Gullane, St. Andrews.*

**Anacalypta**, Rohling.  
lanceolata, Rohl.  
*Queen's Park, St. Andrews, Kirkliston.*

**Distichium**, B. et S.

capillaceum, B. et S.

*Craiglockhart, Pentland and Lomond Hills.*

inclinatum, B. et S.

*Tentsmuir, Largo Links.***Didymodon**, B. et S.

rubellus, B. et S.

flexifolius, H. et T.

*Mount Melville, Pentlands.***Trichostomum**, B. et S.

tophaceum, Brid.

*Pentlands, Kinghorn, Lomonds, Corstorphine, St. Andrews.*

rigidulum, Sm.

flexicaule, B. et S.

homomallum, B. et S.

**Tortula**, Schreb.

rigida, Schu.

*Craiglockhart, Meadowbank, Parson's Green, Dalkeith.*

unguiculata, Hedw.

fallax, Hedw.

 $\beta.$  brevicaulis.*Mount Melville, Ravelrig.*

tortuosa, W. et M.

revoluta, Schw.

muralis, Hedw.

subulata, Brid.

latifolia, B. et S.

lævipila, Brid.

ruralis, Hedw.

Mulleri, Bry. Eur.

*Damyat, Menstrie Glen.*

papillosa, Wils.

**Cinclidotus**, B. et S.

fontinaloides, P. Beauv.

**Encalypta**, Schr.

vulgaris, Hedw.

ciliata, Hedw.

rhabdocarpa, Schw.

*Largo.*

streptocarpa, Hedw.

*Pentlands, Arthur's Seat.***Hedwigia**, Ehrh.

ciliata, Hedw.

**Schistidium**, B. et S.

confertum, B. et S.

*Queen's Park, Kelly Law.*

apocarpum, B. et S.

maritimum, B. et S.

*Aberdour, Kirkcaldy, St.**Andrews.***Grimmia**, Ehrh.

pulvinata, Sm.

spiralis, H. et T.

*Fife.*

torta, Horn.

*Damyat.*

trichophylla, Grev.

*Colinton, Queen's Park,**Largo, Ravelrig Toll.*

patens, B. et S.  
*Carlowrie.*

Donniana, Sm.

leucophæa, Grev.  
*Queen's Park, Damyat, Normand Law, Rocks on coast of Fife.*

**Racomitrium**, B. et S.

aciculare, Brid.  
fasciculare, Brid.  
heterostichum, Brid.  
lanuginosum, Brid.  
canescens, Brid.

**Ptychomitrium**, B. et S.

polyphyllum, B. et S.

**Orthotrichum**, Wils.

cupulatum, Hoffm.  
anomalum, Hedw.  
*Aberdour, Queen's Park, Kenly Den, Elie.*

pumilum, Dick.  
*Dunfermline, Braid.*

stramineum, Hsch.  
affine, Schr.  
rupestre, Schl.  
*Auchindinny, Lomonds.*

$\beta.$  rupincola.  
*Lucklaw Hill, Keels Den, Queen's Park, Auchindinny.*

Lyelli, Hook.  
rivulare, Turn.  
*Denbraes, Fife.*

diaphanum, Schr.  
leiocarpum, B. et S.  
pulchellum, Sm.  
crispum, Hedw.  
Bruchii, Brid.  
*Falkland, Dalkeith.*

**Zygodon**, Hook. et Tayl.

Mougeotii, B. et S.  
viridissimus, Brid.  
*Pentlands, Lomonds, Inchkeith.*

**Tetraphis**, Hedw.

pellucida, Hedw.

**Tetodontium**, Schw.

Brownianum, Schw.

**Buxbaumia**, Haller.

aphylla, Hall.  
*Roslin, Callander.*

**Atrichum**, P. Beauv.

undulatum, P. Beauv.  
laxifolium, Wils.  
*Tubs in greenhouses Botanic Garden, Pentlands.*

**Oligotrichum**, DC.

hercynicum, DC.  
*West Lomond Hill.*

**Pogonatum**, P. Beauv.

nanum, Brid.  
alooides, Brid.

urnigerum, Brid.	Warneum, Bland.
alpinum, Brid.	<i>St. Andrews Links, Tents-muir, Largo Links.</i>
<i>Pentlands, Lomonds, Ochils,</i>	<i>pseudotriquetrum, Schw.</i>
<i>Drumcarro Craig.</i>	<i>alpinum, L.</i>
<b>Polytrichum</b> , Brid.	<i>Pentlands, Ochils.</i>
formosum, Hedw.	<i>pallens, Sw.</i>
commune, L.	<i>Lomonds, Glen Vale, Pent-lands.</i>
$\beta.$ minus.	<i>pallescens, Schw.</i>
<i>Lomonds.</i>	<i>Ochils.</i>
juniperinum, Hedw.	<i>cernuum, B. et S.</i>
$\beta.$ strictum.	<i>Mount Melville, Queensferry.</i>
<i>Ochils, Pentlands.</i>	<i>inclinatum, B. et S.</i>
piliferum, Schr.	<i>Lomonds, Mount Melville,</i>
	<i>St. Andrews.</i>
<b>Aulacomnion</b> , Schw.	<i>bimum, Schr.</i>
palustre, Schw.	<i>Peat Inn Bog, Drumcarro Craig, Pentlands.</i>
<b>Leptobryum</b> , Wils.	<i>capillare, Hedw.</i>
pyriforme, Wils.	<i>cæspiticium, L.</i>
<b>Bryum</b> , Hook. et Tayl.	<i>atropurpureum, W. et M.</i>
elongatum, Dicks.	<i>julaceum, Sm.</i>
<i>Dollar.</i>	<i>Glen Queich, Lomonds.</i>
crudum, Schr.	<i><math>\beta.</math> concinnatum.</i>
nutans, Schr.	<i>Allermuir Burn, Pentlands.</i>
annotinum, Hedw.	<i>argenteum, L.</i>
carneum, L.	<i>Zierii, Dicks.</i>
Wahlenbergii, Schw.	<i>Habbie's Howe, Lomonds,</i>
<i>Briech Burn, Kenly Den.</i>	<i>Dollar.</i>
<i>Not unfrequent in Fife-shire.</i>	<i>demissum, Hook.</i>
Marratii, H. et W.	<i>West Lomond Hill.</i>
<i>Tentsmuir.</i>	<i>roseum, Schr.</i>
calophyllum, R. Br.	<b>Mnium</b> , B. et S.
<i>Tentsmuir.</i>	<i>affine, Bland.</i>

**cuspidatum**, Hedw.  
*Kinness Burn, Earl's Hall,  
 Craiglockhart.*

**rostratum**, Schw.

**serratum**, Brid.

**hornum**, L.

**undulatum**, Hedw.

**stellare**, Hedw.  
*Castle Campbell, Glen  
 Queich, Craiglockhart.*

**punctatum**, Hedw.

**subglobosum**, B. et S.  
*Allermuir Burn, Harburn  
 near West Calder.*

**Meesia**, Hedw.  
*uliginosa*, Hedw.  
*St. Andrews, Elie.*

**Amblyodon**, P. Beauv.  
*dealbatus*, P. Beauv.  
*Gullane, Queen's Park,  
 Largo, St. Andrews.*

**Funaria**, Schr.  
*hygrometrica*, Hedw.  
*Muhlenbergii*, Schw.  
*Kenly Den.*

**Physcomitrium**, Brid.  
*fasciculare*, B. et S.  
*Auchindinny, Pentlands,  
 between Ceres and Cupar.*

**pyriforme**, B. et S.  
*Duddingston, St. Andrews,  
 Kilconquhar, Dunfermline.*

**Bartramia**, Hedw.  
*fontana*, Brid.

**pomiformis**, Hedw.  
 $\beta.$  *crispa.*  
*Drumcarro Craig.*

**Halleriana**, Hedw.  
*Lomonds.*

**Œderi**, Sw.  
*Habbie's Howe, Drumcarro  
 Craig.*

**Ithyphylla**, Brid.  
*Glen Queich.*

**arcuata**, Sw.

**Catoscopium**, Brid.  
*nigritum*, Brid.  
*St. Andrews, Largo.*

**Splachnum**, B. et S.  
*ampullaceum*, L.  
*Ravelrig, Pentlands, West  
 Lomond Hill.*

**sphæricum**, Hedw.  
*West Lomond Hill, source  
 of Medwyn, Pentlands.*

**Fissidens**, Hedw.  
*viridulus*, Wahl.  
*Greyfriars' Churchyard,  
 Edinburgh.*

$\beta.$  *incurvus.*  
*Kinness Burn.*

**bryoides**, Hedw.

**osmundoides**, Hedw.  
*Pentlands.*

**asplenioides**, Sw.  
 $\beta.$  *serrulatus.*  
*Arthur's Seat.*

**adiantoides**, Hedw.

**taxifolius**, Hedw.

Sect. 2.—*Pleurocarpi.***Anoectangium**, B. et S.

compactum, Schw.

*Habbie's Howe, Kenly Den,  
Glen Queich.***Leucodon**, Schw.

sciurooides, Schw.

**Antitrichia**, Brid.

curtipendula, Brid.

**Anomodon**, Hook. et Tayl.

viticulosus, H. et T.

**Pterogonium**, Sw.

gracile, Sw.

**Isothecium**, Brid.

myurum, Dill.

myosuroides, Dill.

alopecurum, Dill.

**Climacium**, W. et M.

dendroides, W. et M.

**Leskea**, Hedw.

polyantha, Hedw.

*Dreghorn Park.*

sericea, Dill.

rufescens, Hall.

subrufa, Wils.

*Bonaly Burn, Habbie's  
Howe.***Hypnum**, Dill.

nitens, Dill.

*Pentlands.*

albicans, Dill.

lutescens, Dill.

plumosum, Sw.

populeum, Sw.

velutinum, Dill.

rutabulum, Dill.

rivulare, Bruch.

*West Lomond Hill.*

piliferum, Vaill.

prælongum, Dill.

Swartzii, Turner.

Teesdalii, Sm.

*Castle Campbell Glen,  
Ochils.*

striatum, Hedw.

ruscifolium, Dill.

confertum, Dicks.

*Boarhills Fife, Craiglock-  
hart, Dalmeny.*

murale, Dill.

tenellum, Dicks.

*Fife, Craiglockhart.*

fluvatile, Sw.

*Pentland Hills.*

serpens, Dill.

riparium, Dill.

polygamum, Bry. Eur.

*St. Andrews.*

stellatum, Dill.

polymorphum, Hedw.  
*St. Andrews.*

palustre, Dill.

Eugyrium, Sch.  
*Rumbling Bridge.*

stramineum, Dicks.  
*West Lomond Hill, Har-  
 burn near West Calder,  
 Pentlands.*

sarmentosum, Wahl.  
*West Lomond Hill.*

cordifolium, Sw.

cuspidatum, Dill.  
 Schreberi, Dill.

purum, Dill.  
 abietinum, Dill.  
*St. Andrew's Links, Largo  
 Links.*

tamariscinum, Hedw.  
 splendens, Dill.  
 triquetrum, Dill.  
 loreum, Dill.  
 squarrosum, Dill.  
 fluitans, Dill.  
*Pentlands, West Lomond  
 Hill, Kenly Den, Bank-  
 head.*

revolvens, Sw.  
*West Lomond Hill, Pent-  
 lands, St. Andrews.*

aduncum, Dill.  
 lycopodioides, Neck.  
*Tentsmuir.*

rugosum, Dill.  
*Glen Queich, Ochils.*

filicinum, Dill.  
*Damyat, Glen Farg, Pent-  
 lands, Lomonds.*

commutatum, Hedw.  
 uncinatum, Hall.  
 Crista-castreensis, L.  
*Pentlands, hill near Cupar.*

molluscum, Dill.  
 cupressiforme, Dill.  
 $\beta.$  compressum, and other vars.  
 resupinatum, Wils.  
 ochraceum, Turn.  
*Habbie's Howe.*

scorpioides, Dill.  
 incurvatum, Brid.  
*Ochils.*

pulchellum, Dicks.  
*Habbie's Howe, Glen Queich  
 St. Andrews, West Lo-  
 mond Hill.*

undulatum, Dill.  
 sylvaticum, Dill.  
 denticulatum, Dill.  
 elegans, Hook.  
*Castle Campbell, Ochils.*

depressum, Bruch.  
*Allan Water.*

**Omalia**, Brid.  
 trichomanoides, Dill.

**Neckera**, Hedw.  
 complanata, Bry. Eur.  
 crispa, Dill.  
*Habbie's Howe, Roslin,  
 Lucklaw Hill, Lomonds.*

pumila, Hud.  
*Cleish woods.*

**Hookeria**, Sm.  
 lucens, Dill.

**Cryphæa**, Mohr.

heteromalla, Dill.

*Dalkeith, Dunfermline.*

**Fontinalis**, Dill.

antipyretica, L.

squamosa, L.

*Water of Leith.*

*N. O.—Hepaticæ.*

**Riccia**, Linn.

glauca, L.

emarginata, Ehrh.

*Pentlands, Corstorphine Hill.*

**Targionia**, Mich.

hypophylla, L.

*Braid Hermitage, Bonaly Burn.*

Orcadensis, Hook.

*Swanston, Bonaly, Lomonds.*

**Marchantia**, Mich.

polymorpha, L.

Bantriensis, Hook.

*Swanston.*

$\beta$ . muscicola.

*Auchindinny.*

$\gamma$ . minor.

*Auchindinny, Swanston.*

inflata, Huds.

*Roslin and Newbattle Woods.*

ventricosa, Dicks.

*Auchindinny.*

bicuspidata, L.

byssacca, Roth.

*Roslin, Auchindinny, Arniston.*

connivens, Dicks.

*Pentlands, Auchindinny.*

incisa, Schr.

*Pentlands, Lomonds.*

nemorosa, L.

$\beta$ . denudata.

*Auchindinny, Swanston.*

undulata, L.

resupinata, L.

*Wood near Penicuick, Glassmount, Falkland.*

**Jungermannia**, Linn.

asplenoides, L.

pumila, With.

*Aberdour, Pentlands.*

sphagni, Dicks.

*Pentlands frequent, Glassmount.*

crenulata, Sm.

$\beta$ . gracillima.

*Arniston, Auchindinny.*

albicans, L.	ciliaris, L.
obtusifolia, Hook.	<i>Pentlands, Lomonds.</i>
<i>Lomonds, and elsewhere in Fifeshire.</i>	tomentella, Ehrh.
complanata, L.	<i>Pentlands.</i>
anomala, Hook.	serpyllifolia, Dicks.
<i>Pentlands.</i>	<i>Arniston, Auchindinny.</i>
scalaris, Schr.	dilatata, L.
polyanthos, L.	Tamarisci, L.
<i>Bilston, Habbie's Howe.</i>	pinguis, L.
Trichomanes, Dicks.	$\beta.$ angustior.
bidentata, L.	<i>Auchindinny.</i>
barbata, Schr.	multifida, L.
<i>Pentlands, Corstorphine,</i>	$\beta.$ sinuata.
<i>Roslin.</i>	<i>Roslin, Arniston.</i>
reptans, L.	Blasia, Hook.
trilobata, L.	<i>Auchindinny, Habbie's Howe.</i>
<i>Pentlands, Dunearn Hill.</i>	epiphylla, L.
setacea, Web.	$\beta.$ longifolia.
trichophylla, L.	<i>Auchindinny.</i>
<i>Habbie's Howe, Arniston,</i>	$\gamma.$ furcigera.
<i>Auchindinny.</i>	<i>Auchindinny.</i>
platyphylla, L.	furcata, L.
	pubescens, Schrank.

## N. O.—Lichenes.

<b>Bæomyces</b> , Pers.	sphærocephalum, Ach.
roseus, Pers.	furfuraceum, Pers.
<i>Pentlands, Lomonds.</i>	<i>Bonaly.</i>
rufus, Wahl.	
<b>Calicium</b> , Ach.	<b>Opegrapha</b> , Ach.
clavellum, Turn. et Borr.	vulgata, Ach.
<i>Auchindinny.</i>	varia, Pers.
chrysocephalum, Ach.	scripta, Ach.
<i>Slateford, Bonaly.</i>	
	<b>Verrucaria</b> , Pers.
	nitida, Schr.

epidermidis, Ach.	faginea, Pers.
maura, Ach.	lactea, Pers.
<i>Rocks by the Firth of Forth, Dunbar.</i>	
nigrescens, Pers.	
<b>Endocarpon</b> , Hedw.	<b>Urceolaria</b> , Ach.
miniatum, Ach.	scruposa, Ach.
$\beta$ . complicatum.	<i>Pentlands, Queen's Park, Pettycur.</i>
<i>Balmuto.</i>	
$\gamma$ . aquaticum.	Acharii, Ach.
<i>Auchindinny.</i>	<i>Dalmahoy.</i>
Hedwigii, Ach.	
<i>Arthur's Seat, Pentlands.</i>	
<b>Pertusaria</b> , Ach.	<b>Lecidea</b> , Ach.
communis, DC.	atro-alba, Ach.
	<i>Dalmahoy, Orrock Hill, Swanston.</i>
<b>Thelotrema</b> , Ach.	fuseo-atra, Ach.
lepadinum, Ach.	<i>Pentlands.</i>
<b>Lepraria</b> , Ach.	petræa, Ach.
viridis, Turn. et Borr.	confluens, Ach.
murorum, Grev.	<i>Pentlands, Braid, Lomonds.</i>
flava, Ach.	parasema, Ach.
alba, Ach.	sanguinaria, Ach.
cinereo-sulphurea, Ach.	geographica, Hook.
<i>Swanston wood.</i>	$\beta$ . atro-virens.
nigra, Turn. et Borr.	<i>Pentlands, Queen's Park.</i>
<b>Spiloma</b> , Ach.	silacea, Ach.
gregarium, Turn. et Borr.	<i>Pentlands.</i>
$\beta$ . cinnabarinum.	Œderi, Ach.
	abietina, Ach.
<b>Variolaria</b> , Pers.	<i>Ravelrig, Swanston, Dysart.</i>
globulifera, Turn.	viridescens, Ach.
<i>Braid.</i>	<i>Swanston, Dalmahoy, Falk- land.</i>
discoidea, Pers.	incana, Hook.
	coronata, Borr.
	<i>Colinton, Pentlands.</i>
	ferruginea, Hook.
	icmadophila, Ach.

marmorea, Ach.  
*Pentlands.*

Ehrhartiana, Ach.

polytropa, Ach.  
*Pentlands, Ferry Hills.*

lucida, Ach.  
*North Queensferry.*

**Lecanora**, Ach.

atra, Ach.

argopholis, Ach.

subfusca, Ach.

ventosa, Ach.

Hæmatomma, Ach.  
*Dalmahoy, Roslin, Queen's Park, Pentlands.*

crenulata, Hook.

Parella, Ach.

tartarea, Ach.  
*Pentlands, Dalmahoy.*

vitellina, Ach.

**Squamaria**, DC.

crassa, DC.  
*Queen's Park, Pentlands.*

muscorum, Hook.  
*Auchindinny.*

hypnorum, Hook.  
*Roslin, Pentlands.*

candelaria, Hook.  
*Queen's Park, Craigleith.*

murorum, Hook.

elegans, Hook.  
*Queen's Park, Pentlands.*

cæsia, Hook.  
*Queen's Park, Dysart.*

saxicola, Hook.  
*Queen's Park, Dalmahoy, Swanston.*

**Placodium**, Fee.

canescens, DC.  
*Bass Rock, Queen's Park.*

**Parmelia**, Ach.

glomulifera, Ach.  
*Pentlands, Humby.*

caperata, Ach.  
*Queen's Park, Pentlands, Craigleith.*

conspersa, Ach.

saxatilis, Ach.

omphalodes, Ach.

perlata, Ach.  
*Swanston, Dunfermline.*

herbacea, Ach.  
*Auchindinny, Roslin.*

olivacea, Ach.

pulverulenta, Ach.

stellaris, Ach.

cycloselis, Ach.  
*Colinton.*

incurva, Hook.  
*Dunearn Hill.*

aquila, Ach.

parietina, Ach.

physodes, Ach.

**Sticta**, Ach.

crocata, Ach.  
*Dalmahoy Hill.*

pulmonaria, Hook.  
*Swanston, Pentlands, Humby Wood.*

scrobiculata, Ach.	Islandica, Ach.
limbata, Ach.	<i>Swanston, Dalmahoy, Carnethie, West Lomond Hill.</i>
<i>Turfin Hill, Braid, Balmuto.</i>	
<b>Collema</b> , Ach.	<b>Borrera</b> , Ach.
marginale, Hook.	ciliaris, Ach.
nigrescens, Ach.	tenella, Ach.
crispum, Borr.	furfuracea, Ach.
tremelloides, Ach.	<i>Swanston.</i>
<i>Pentlands.</i>	
lacerum, Ach.	<b>Evernia</b> , Ach.
muscicola, Ach.	prunastri, Ach.
<i>Dalmahoy Hill.</i>	
<b>Peltidea</b> , Ach.	<b>Ramalina</b> , Ach.
venosa, Ach.	fraxinea, Ach.
<i>Habbie's Howe.</i>	fastigiata, Ach.
scutata, Ach.	scopulorum, Ach.
<i>Penicuik Glen.</i>	farinacea, Ach.
aphthosa, Ach.	
<i>Pentlands, Dalmahoy, Habbie's Howe.</i>	<b>Usnea</b> , Ach.
canina, Ach.	florida, Ach.
rufescens, Ach.	<i>Swanston.</i>
polydactyla, Ach.	plicata, Ach.
<i>Craighouse, Pentlands, West Lomond Hill.</i>	<i>Pentlands, Balmuto, Drumshorlan.</i>
<b>Gyrophora</b> , Ach.	<b>Alectoria</b> , Ach.
polyphylla, Hook.	jubata, Ach.
<i>Arthur's Seat.</i>	<i>Pentlands, Dalmahoy,</i> <i>Swanston.</i>
proboscidea, Ach.	
<i>Carnethie Hill.</i>	
deusta, Ach.	<b>Cornicularia</b> , Ach.
<i>Corstorphine, Craiglockhart.</i>	aculeata, Ach.
<b>Cetraria</b> , Ach.	$\beta.$ spadicea.
glauca, Ach.	bicolor, Ach.
<i>Swanston, Pentlands.</i>	<i>Dalmahoy Hill.</i>
	lanata, Ach.
	<i>Carnethie Hill.</i>

**Isidium**, Ach.

corallinum, Ach.

*Pentlands, Blackford.***Sphærophoron**, Ach.

coralloides, T. et B.

 $\beta.$  cæspitosum.*Pentlands.*

compressum, Ach.

*Duneearn, Dalmahoy.***Stereocaulon**, Ach.

paschale, Ach.

*Pentlands, Corstorphine,*  
*Dalmahoy.***Cladonia**, Fee.

uncialis, Hook.

rangiforma, Hoffm.

furcata, Hoffm.

 $\beta.$  spinosa.**Scyphophorus**, Fee.

alcicornis, Hook.

anomæus, Hook.

*Pentlands.*

cervicornis, Hook.

pyxidatus, Hook.

fimbriatus, Hook.

cornutus, Hook.

gracilis, Hook.

filiformis, Hook.

*Swanston Wood.*

deformis, Hook.

digitatus, Hook.

cocciferus, Hook.

 $\beta.$  cornucopioides.

bellidiflorus, Hook.

**Pycnothella**, Duf.

papillaria, Hook.

*Drumshorlan Moor.**N. O.—Characeæ.***Chara**, L.

flexilis, L.

*Ravelrig, Musselburgh,*  
*Power Hall, Kinghorn*  
*Loch, Dunfermline, Loch*  
*Leven, Gullane, Tyn-*  
*head.*

translucens, Pers.

*Ditches about Edinburgh*  
*and Kinghorn.*

vulgaris, L.

*Glassmont Marshes, Dud-*  
*dingston, Gullane, Tyn-*  
*head.*

hispida, L.

*Gullane, Glassmont.*



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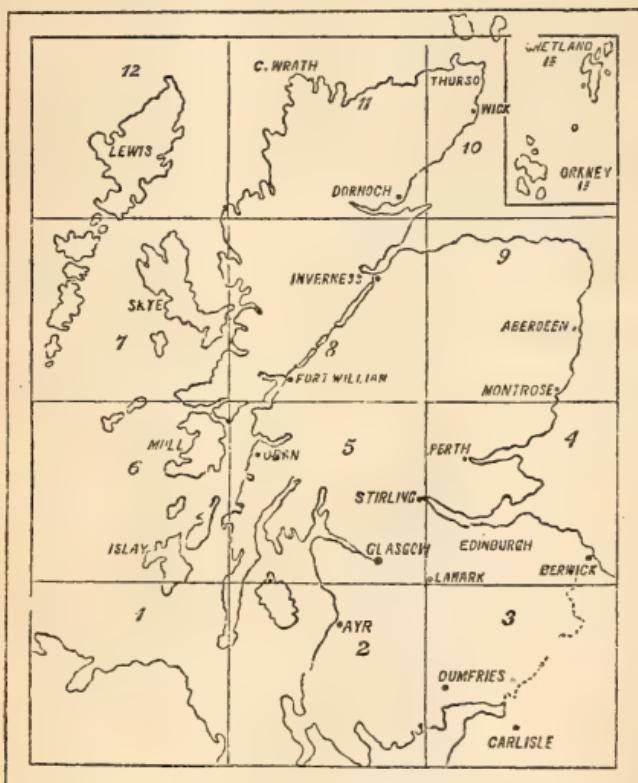
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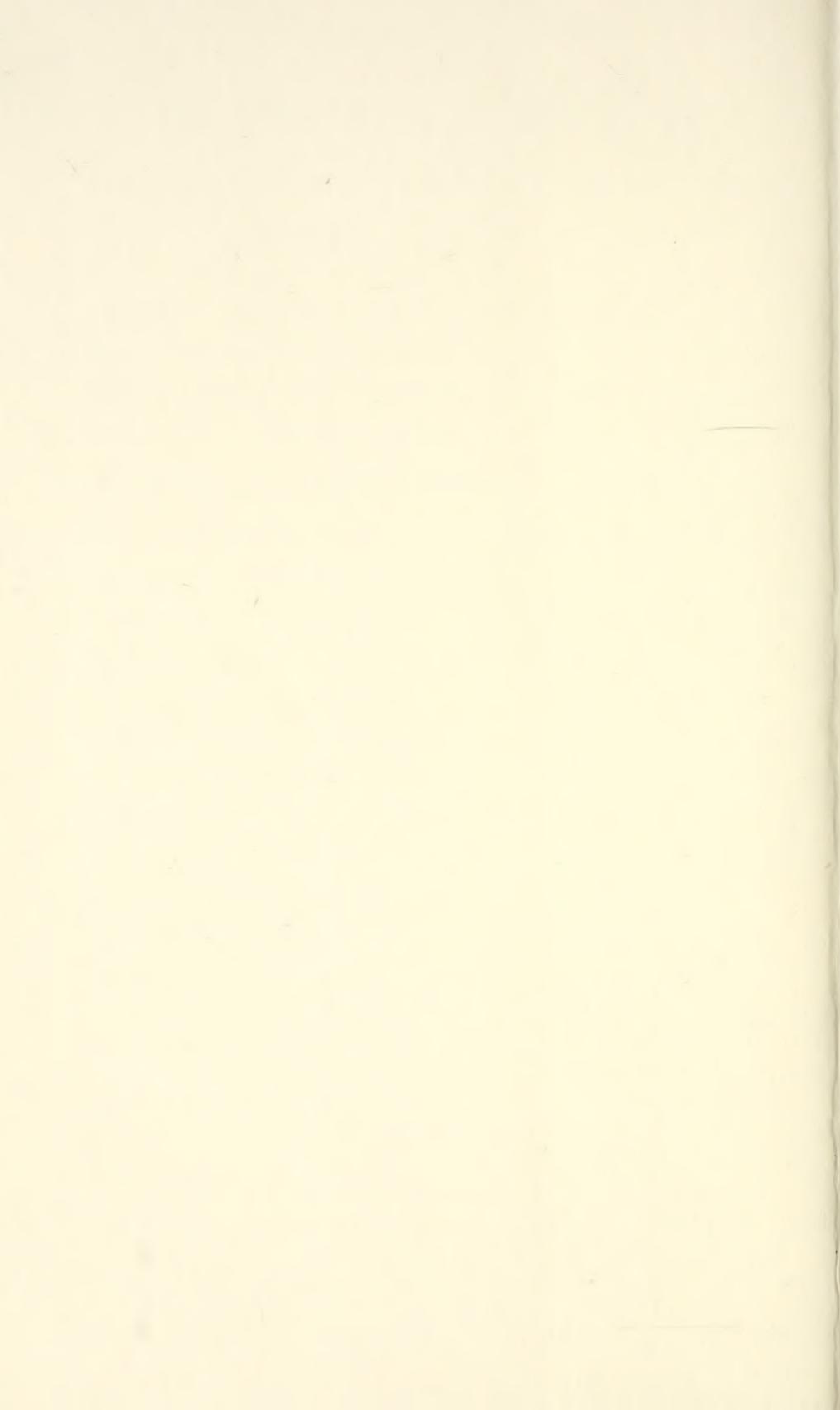
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